

PHASE II ENVIRONMENTAL ASSESSMENT
12710 AND 12750 MABURY ROAD
SAN JOSE, CALIFORNIA

Prepared for

Mr. Murphy Sabatino
12710 and 12750 Mabury Road
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by

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October 5, 2012

October 5, 2012
212563

Murphy Sabatino
12710 and 12750 Mabury Road
San Jose, CA 95133

Subject: Phase II Environmental Assessment
12710 and 12750 Mabury Road, Redwood City, California

Dear Mr. Sabatino:

Aquifer Sciences is pleased to present this report containing the results of the Phase II environmental assessment conducted for the properties at 12710 and 12750 Mabury Road in San Jose, California. We appreciate the opportunity to be of service. If you have any questions regarding this report, please call us.

Respectfully yours,



Justin Evans
Staff Hydrogeologist



Rebecca A. Sterbentz, PG, CHG
President



Enclosure

cc: Mike Campbell, HMH

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PHASE II ENVIRONMENTAL ASSESSMENT 12710 and 12750 Mabury Road, San Jose, California September 2012

1.0 INTRODUCTION

This report presents the results of the Phase II environmental assessment conducted for the properties (the “Site”) located at 12710 and 12750 Mabury Road in San Jose, California (Figure 1). The objectives of this assessment were to: 1) collect and analyze soil samples near each of the recognized environmental conditions identified during the Phase I assessment, 2) collect and analyze groundwater samples to evaluate potential impacts from the recognized environmental conditions, 3) evaluate and compare analytical data for soil and groundwater samples to regulatory limits, and 4) determine the scope of any soil or groundwater remediation that may be warranted. Soil and groundwater sampling and analysis were performed in accordance with our work plan dated August 31, 2012.

2.0 SITE DESCRIPTION

The Site consists of approximately 3.4 acres of land and is located at 12710 and 12750 Mabury Road, San Jose, California (Figures 1 and 2). Prior to 1965, the Site was used as agricultural land. As shown in aerial photographs, orchards were present on the Site from 1939 to 1965. Two single-family homes are currently located on the Site. The area surrounding the homes includes patios, a pool, concrete-paved driveways, greenhouses, sheds, outdoor restrooms, planting areas, and landscaping.

The single-family homes were constructed in the mid-1960s. The eastern portion of the Site is made available to the Master Gardeners of Santa Clara County for organic gardening, cultivation trials and experimentation, and growing produce for charitable contribution.

3.0 SOIL AND GROUNDWATER SAMPLING AND ANALYSIS

On September 6, 2012, soil and groundwater sampling was conducted at nine locations across the Site. The sampling locations, B1 through B9, are illustrated on Figure 2.

Prior to drilling, each proposed boring location was marked and Underground Service Alert was notified to check for the presence of underground utilities. In addition, a private utility-line locator (C. Cruz Sub-Surface Locators) was retained to check the vicinity of each proposed boring.

The soil and groundwater sampling program was conducted by Aquifer Sciences field staff working under the direction of a California Professional Geologist. Environmental Control

Associates, a C-57 certified environmental drilling company, performed the subsurface work using a Geoprobe 5410 truck-mounted rig equipped with a 2-inch diameter sampler and drive rods. Soil samples and cuttings were examined for lithologic identification and visible signs of contamination. Copies of the drilling logs are included in Appendix A.

All drilling equipment and tools were washed with an Alconox solution, rinsed with tap water, and rinsed with distilled water before the field program began and after each use. Sampling equipment was also washed with an Alconox solution, rinsed with tap water, and rinsed with distilled water prior to each use.

Soil samples were collected from borings B1, B2, B3, B4, and B8 at depths of 1, 3, and 6 feet below ground surface. Soil samples were collected from borings B5, B6, B7, and B9 at a depth of 1 foot below ground surface. The soil samples were collected in clean liners. The liners were sealed, labeled, stored on ice in a cooler at 4° Celsius, and transported under chain-of-custody protocol within 24 hours of collection to McCampbell Analytical, a state-certified analytical laboratory, located in Pittsburg, California.

In total, 19 soil samples were collected from the nine borings. Of these, 14 samples from the 1- and 3-foot depths within each boring were designated for laboratory analysis. The remaining five samples from the 6-foot depths were placed on hold at the laboratory for possible future analysis. The 1-foot deep samples from borings B1, B2, B5, B6, B7, and B8 were analyzed for total petroleum hydrocarbons identified as gasoline (TPH-gasoline), TPH-diesel and TPH-motor oil by EPA Method 8015B with silica gel cleanup. The 1-foot deep samples from borings B1 and B2 were analyzed for volatile organic compounds (VOCs) and fuel oxygenates by EPA Method 8260B. The 1-foot deep samples from borings B2 and B3 were also analyzed for the CAM 17 metals by EPA Method 6020. The 1- and 3-foot deep samples from borings B1, B2, B3, B4, B5, B8, and B9 were analyzed for organochlorine pesticides by EPA Method 8081A, and arsenic and lead by EPA Method 6020.

Grab groundwater samples were collected from two of the nine boring locations (B2 and B8). Groundwater samples were collected from the borings at depths of approximately 28 to 32 feet below ground surface. Each groundwater sample was collected using new tubing and a peristaltic pump. Reusable sampling equipment was washed with an Alconox solution, rinsed with tap water, and rinsed with distilled water prior to each use.

Samples were collected in clean bottles supplied by the analytical laboratory. The bottles were sealed, labeled, stored on ice in a cooler at 4° Celsius, and transported under chain-of-custody protocol within 24 hours of collection to McCampbell Analytical. After sampling was completed, each boring was filled and sealed with Portland cement.

Both groundwater samples were analyzed for TPH-gasoline, TPH-diesel, and TPH-motor oil by EPA Method 8015B with silica gel cleanup and VOCs and fuel oxygenates by EPA Method 8260B. Boring B2 was also analyzed for CAM 17 metals by EPA Method 200.8.

4.0 ANALYTICAL DATA EVALUATION

The results of laboratory analysis performed on the soil and groundwater samples collected on September 6, 2012, are presented in Tables 1 through 5. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix B.

4.1 ANALYTICAL DATA EVALUATION FOR SOIL

The analytical results were compared to regulatory standards to evaluate the environmental condition of the soil. One of the currently applicable regulatory guidelines is given by the California Environmental Protection Agency (Cal/EPA), which consists of California human health screening levels (CHHSLs) for residential properties. Another set of currently applicable regulatory guidelines is given by the Regional Water Quality Control Board (RWQCB), which consists of environmental screening levels (ESLs) for residential properties. The presence of a chemical at concentrations in excess of a CHHSL or ESL does not indicate that adverse impacts to human health are occurring, but suggests that further evaluation of potential human health concerns may be warranted. The analytical data were also compared to the Total Threshold Limit Concentration (TTLC) values established by the State of California to provide concentration limits for the classification of hazardous substances. In addition, the State of California has established Soluble Threshold Limit Concentration (STLC) values to provide soluble concentration limits for the classification of hazardous substances. As a rule-of-thumb, samples that contain an analyte at concentrations exceeding the numerical value of 10 times the STLC should be analyzed for soluble concentrations.

Table 1 summarizes the analytical data for organochlorine pesticides in soil. Low concentrations of *a*-chlordane, *g*-chlordane, *p,p*-dichlorodiphenyldichloroethane (DDD), *p,p*-dichlorodiphenyldichloroethene (DDE), and *p,p*-dichlorodiphenyltrichloroethane (DDT) were detected in one or another soil sample from borings B2, B3, B4, B5, and B9 from the 1- and 3-foot depths. None of the pesticide concentrations detected in the samples exceeded the CHHSLs, ESLs, TTLCs, or STLCs. No other pesticides were detected in the samples. These low pesticide concentrations in soil are consistent with the former agricultural usage of the Site.

Table 2 summarizes the analytical data for petroleum hydrocarbons and VOCs detected in the soil samples. TPH-gasoline was not detected in any of the soil samples. Low concentrations of TPH-diesel, up to 6.2 milligrams per kilogram (mg/kg), were detected in six samples. None of these TPH-diesel concentrations exceeded the residential ESL of 83 mg/kg. Low concentrations of TPH-motor oil (up to 49 mg/kg) were detected in four samples. None of

these TPH-motor oil concentrations exceeded the residential ESL of 370 mg/kg. VOCs and fuel oxygenates were not detected in any of the soil samples.

Table 3 summarizes the analytical data for metals detected in the soil samples. Low concentrations of metals were detected in all of the soil samples. Metals occur naturally in soil and rock, and are typically present at varying concentrations. None of the metals concentrations exceeded the CHHSLs or ESLs, except for arsenic and vanadium. Arsenic was detected in every sample at concentrations between 6.3 and 10 mg/kg. The CHHSL for arsenic is 0.07 mg/kg, and the ESL is 0.39 mg/kg. Arsenic concentrations up to approximately 20 mg/kg are within background levels for soil in the San Jose area. Vanadium was detected in two samples (B2-1 and B3-1) at concentrations of 55 and 44 mg/kg, respectively. The CHHSL for vanadium is 530 mg/kg, and the ESL is 16 mg/kg. The presence of vanadium in soil is common in the San Jose area and is likely naturally-occurring at these concentrations.

None of the metals concentrations, except chromium, exceeded the rule-of-thumb comparison of ten times the STLC. Chromium was detected in samples B2-1 and B3-1 at concentrations of 65 and 56 mg/kg, respectively. Ten times the STLC value is 50 mg/L. Chromium occurs naturally at these concentrations in soil in the San Jose area.

4.2 ANALYTICAL DATA EVALUATION FOR GROUNDWATER

The analytical data were compared to regulatory standards to evaluate the groundwater quality. The currently applicable regulatory guidelines are given by the RWQCB and consist of the Tier 1 ESLs for groundwater (Table A).

Table 4 summarizes the analytical data for petroleum hydrocarbons and VOCs detected in the groundwater samples from borings B2 and B8. TPH-gasoline, TPH-diesel, and TPH-motor oil were not detected in any of the groundwater samples. VOCs and fuel oxygenates were not detected in any of the groundwater samples.

Table 5 summarizes the analytical data for the CAM 17 metals detected in the groundwater sample from boring B2. Ten of the CAM 17 metals (barium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc) were detected in sample B2. Metals occur naturally in soil and groundwater, and the concentrations of metals detected in the groundwater samples at the Site appear to be representative of background conditions for the San Jose area. None of the metals concentrations in the samples exceeded the ESLs. The laboratory reported the presence of sodium, calcium, and magnesium salts, which is likely a byproduct of the septic tank and leach field.

5.0 SUMMARY AND CONCLUSIONS

In September 2012, Aquifer Sciences performed a Phase II environmental assessment for the Site located at 12710 and 12750 Mabury Road in San Jose, California. The main objectives of the Phase II assessment were to: 1) collect and analyze soil samples near each of the recognized environmental conditions identified during the Phase I assessment, 2) collect and analyze groundwater samples to evaluate potential impacts from the recognized environmental conditions, 3) evaluate and compare analytical data for soil and groundwater samples to regulatory limits, and 4) determine the scope of any soil or groundwater remediation that may be warranted.

Soil and groundwater samples were collected from nine borings across the Site. The sampling locations were selected based on the findings and conclusions of the Phase I environmental assessment. Soil sampling depths were selected mainly to evaluate the presence and distribution of agriculturally-related chemicals and the recognized environmental conditions identified in the Phase I environmental assessment. Grab groundwater samples were collected from two of the nine borings. Based on the assessment results, the following conclusions can be made:

- Soil encountered in the borings primarily consisted of clay, silt, sand and gravel. No evidence of staining or odor was apparent during sampling.
- The pesticide concentrations detected in soil include α -chlordane, γ -chlordane, DDD, DDE, and DDT. None of the pesticide concentrations exceeded the residential CHHSLs or ESLs.
- Low concentrations of petroleum hydrocarbons (TPH-diesel and TPH-motor oil) were detected in some of the soil samples. None of these detections exceeded the residential ESLs.
- Metals occur naturally in soil and rock and were detected in varying concentrations in all of the samples. Arsenic, chromium, and/or vanadium were detected in many samples at concentrations exceeding one and/or another of the applicable regulatory guidelines.
- Arsenic was detected in every soil sample. Soils of the San Jose area typically contain background concentrations of arsenic up to approximately 20 mg/kg. None of the soil samples contained arsenic above the background concentration.
- Chromium was detected at low concentrations in the soil samples, but did not exceed the residential CHHSL or ESL. Chromium exceeded the rule-of-thumb comparison of ten times the STLC in two of the samples. The presence of chromium in soil is common in the San Jose area and is likely naturally-occurring at these concentrations.

- Vanadium was detected in two soil samples at concentrations exceeding the residential ESL, but not the residential CHHSL. The presence of vanadium in soil is common in the San Jose area and is likely naturally-occurring at these concentrations.
- The analytical data indicate that the soil quality is consistent with the Site's former agricultural usage. Shallow soil at the Site contains residual concentrations of pesticides; however, none exceeded residential CHHSLs or ESLs.
- The groundwater samples were analyzed for petroleum hydrocarbons, VOCs, and/or metals. Petroleum hydrocarbons and VOCs were not detected in the groundwater samples.
- Ten of the CAM 17 metals (barium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, vanadium, and zinc) were detected in groundwater sample B2. None of the metals concentrations in the groundwater sample exceeded the ESLs.

6.0 RECOMMENDATIONS

The results of the Phase II assessment indicate that the environmental quality of soil and groundwater is favorable. The analytical data show that the concentrations of pesticides, petroleum hydrocarbons, and VOCs in soil and groundwater were either not detected or do not exceed the current regulatory screening limits given as residential CHHSLs and ESLs. Arsenic, chromium, and vanadium were detected in soil at low concentrations exceeding at least one regulatory limit, but not exceeding naturally-occurring concentrations in the San Jose area.

It is our understanding that the Site will be redeveloped for multi-family residential housing. Although there is no need to perform any environmental remediation based on the results of the Phase II assessment and current Site usage, the City of San Jose may have specific objectives regarding soil quality for certain residential development scenarios.

7.0 LIMITATIONS

This environmental assessment was performed in accordance with the practices and procedures generally accepted in the consulting engineering field. Our professional judgment regarding the potential for contamination at the Site is based on limited data; no other warranty is given or implied by this report. This document was prepared exclusively for Murphy Sabatino. It is intended for use only by Mr. Sabatino, his agents, and assignees. No other person or entity may rely upon the report without the expressed written consent of Aquifer Sciences, Inc.

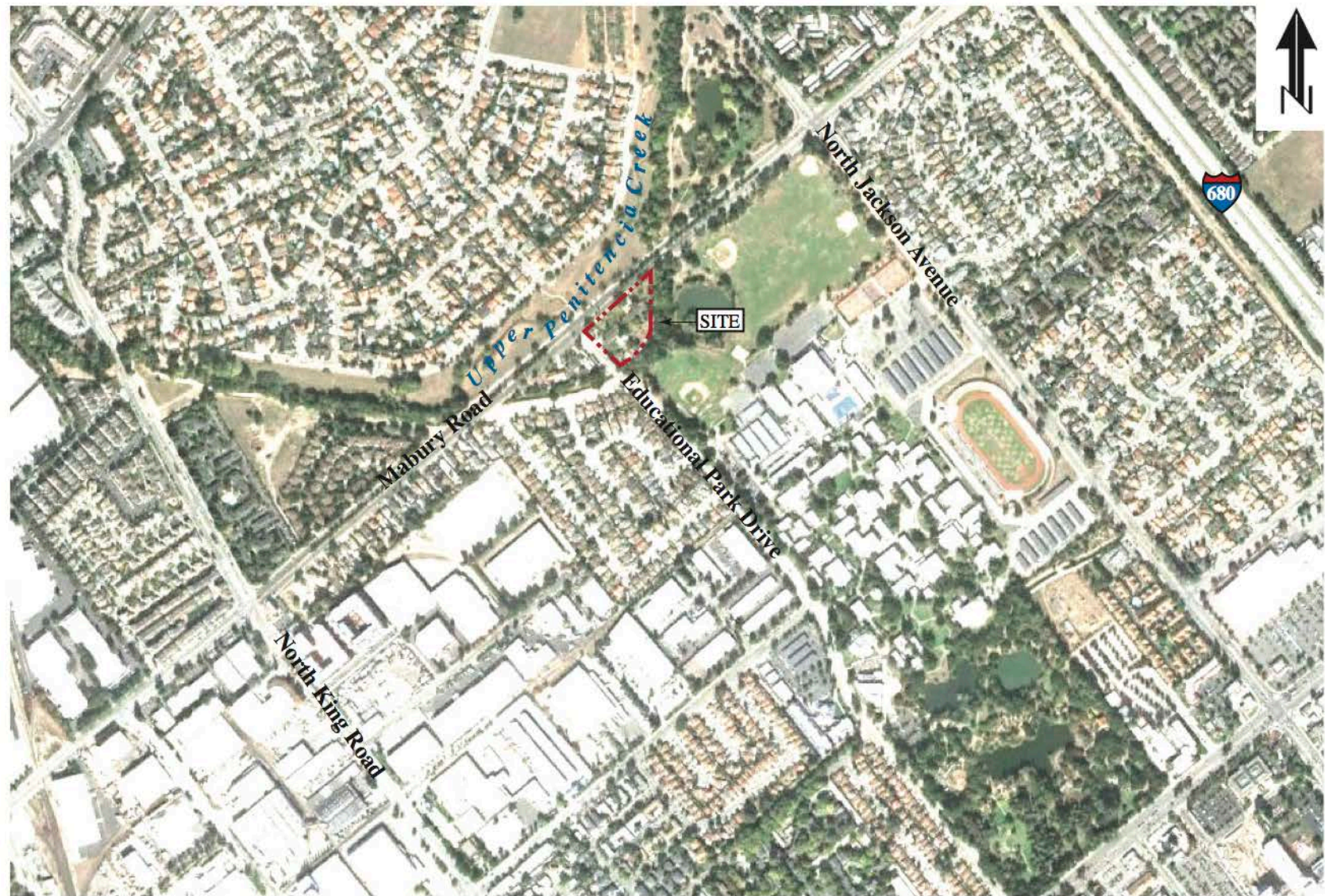
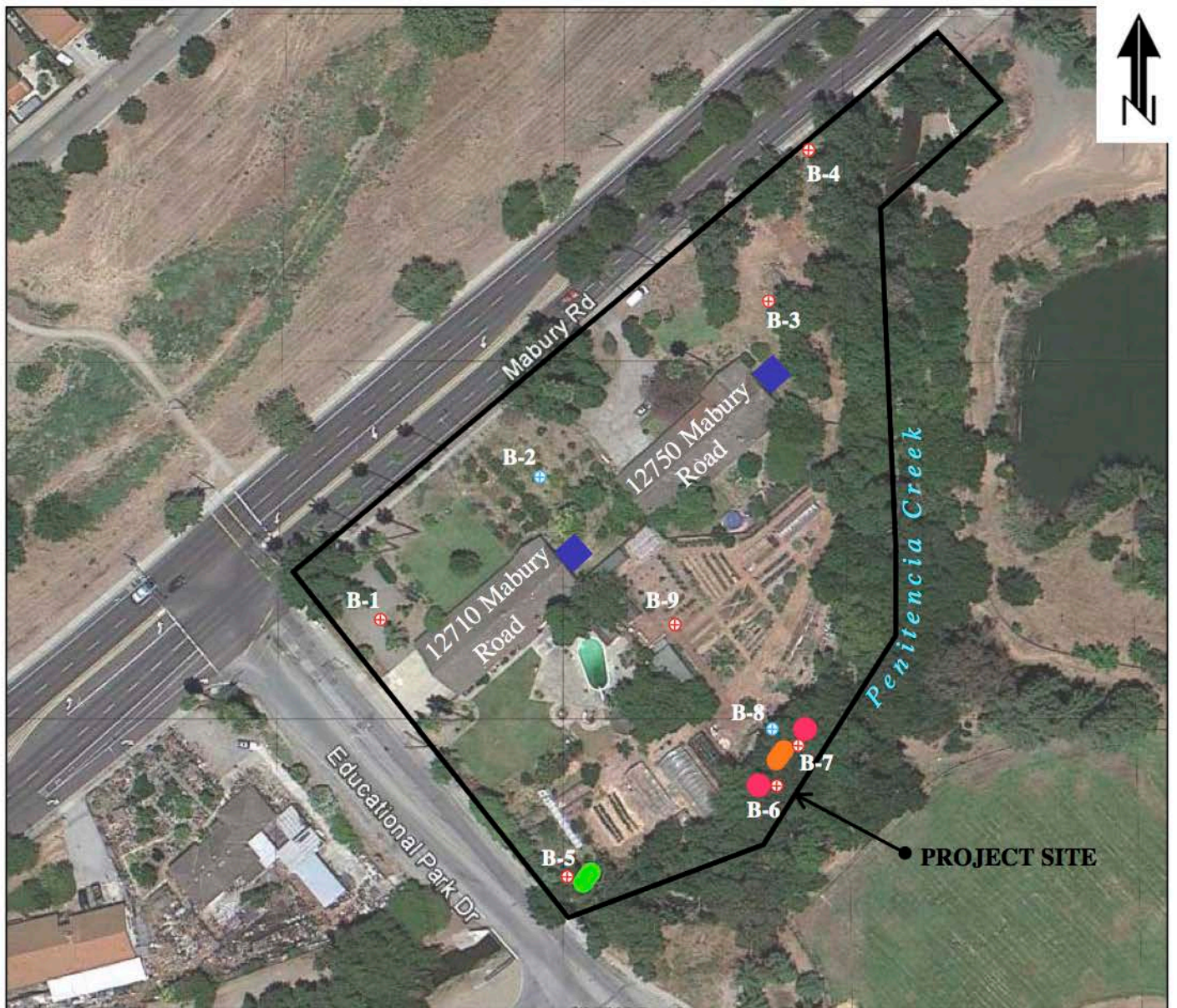


Figure 1. VICINITY MAP
12710 and 12750 Mabury Road, San Jose, California

0 1000 feet
scale



EXPLANATION

- septic tank
- corroded 55-gallon drum
- abandoned truck
- abandoned tractor
- ⊕ soil sample location
- ⊕ soil and groundwater sample location
- property boundary

0 150 feet
scale

Figure 2. MAP SHOWING SAMPLING LOCATIONS
12710 and 12750 Mabury Road, San Jose, California

Table 1. ANALYTICAL DATA FOR SOIL – Pesticides
12710 and 12750 Mabury Road, San Jose, California

| Sampling Location | Sampling Date | Sample Depth (feet) | a-Chlordane (mg/kg) | g-Chlordane (mg/kg) | DDD (mg/kg) | DDE (mg/kg) | DDT (mg/kg) | Dieldrin (mg/kg) | Other Pesticides (mg/kg) |
|-------------------|---------------|---------------------|---------------------|---------------------|-------------|-------------|-------------|------------------|--------------------------|
| B1-1 | 9/6/12 | 1 | ND | ND | ND | ND | ND | ND | ND |
| B1-3 | 9/6/12 | 3 | ND | ND | ND | ND | ND | ND | ND |
| B2-1 | 9/6/12 | 1 | ND | ND | ND | 0.0039 | 0.0070 | ND | ND |
| B2-3 | 9/6/12 | 3 | ND | ND | ND | ND | ND | ND | ND |
| B3-1 | 9/6/12 | 1 | ND | ND | ND | 0.0044 | ND | ND | ND |
| B3-3 | 9/6/12 | 3 | ND | ND | ND | ND | 0.0067 | ND | ND |
| B4-1 | 9/6/12 | 1 | ND | 0.0014 | 0.0017 | 0.23 | 0.036 | ND | ND |
| B4-3 | 9/6/12 | 3 | ND | ND | ND | 0.0010 | ND | ND | ND |
| B5-1 | 9/6/12 | 1 | 0.0032 | 0.0015 | ND | 0.047 | 0.036 | ND | ND |
| B6-1 | 9/6/12 | 1 | NA | NA | NA | NA | NA | NA | NA |
| B7-1 | 9/6/12 | 1 | NA | NA | NA | NA | NA | NA | NA |
| B8-1 | 9/6/12 | 1 | ND | ND | ND | ND | ND | ND | ND |
| B8-3 | 9/6/12 | 3 | ND | ND | ND | ND | ND | ND | ND |
| B9-1 | 9/6/12 | 1 | ND | ND | ND | 0.0060 | 0.0072 | ND | ND |
| Reporting Limit | | ---- | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | varies |
| Residential CHSL | | ---- | 0.43 | 0.43 | 2.3 | 1.6 | 1.6 | 0.035 | varies |
| Residential ESL | | ---- | 0.44 | 0.44 | 2.4 | 1.7 | 1.7 | 0.0023 | varies |
| TTL | | ---- | 2.5 | 2.5 | 1 | 1 | 1 | 8 | varies |
| STLC (mg/L) | | ---- | 0.25 | 0.25 | 0.1 | 0.1 | 0.1 | 0.8 | varies |

mg/kg = milligrams per kilogram (parts per million or ppm)

NA = not analyzed

ND = not detected above the reporting limit

DDD = p,p-dichlorodiphenyldichloroethane

DDE = p,p-dichlorodiphenyldichloroethene

DDT = p,p-dichlorodiphenyltrichloroethane

CHSL = California human health screening level, California Environmental Protection Agency

ESL = Tier 1 environmental screening level, Table A, San Francisco Regional Water Quality Control Board, May 2008

TTL = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration (units are mg/L)

Table 2. ANALYTICAL DATA FOR SOIL – Petroleum Hydrocarbons and VOCs
12710 and 12750 Mabury Road, San Jose, California

| Sampling Location | Sampling Date | Sample Depth (feet) | TPH-gasoline (mg/kg) | TPH-diesel (mg/kg) | TPH-motor oil (mg/kg) | VOCs (mg/kg) |
|-------------------|---------------|---------------------|----------------------|--------------------|-----------------------|--------------|
| B1-1 | 9/6/12 | 1 | ND | 2.4 | ND | ND |
| B1-3 | 9/6/12 | 3 | NA | NA | NA | NA |
| B2-1 | 9/6/12 | 1 | ND | 3.6 | 7.9 | ND |
| B2-3 | 9/6/12 | 3 | NA | NA | NA | NA |
| B3-1 | 9/6/12 | 1 | NA | NA | NA | NA |
| B3-3 | 9/6/12 | 3 | NA | NA | NA | NA |
| B4-1 | 9/6/12 | 1 | NA | NA | NA | NA |
| B4-3 | 9/6/12 | 3 | NA | NA | NA | NA |
| B5-1 | 9/6/12 | 1 | ND | 4.1 | 26 | NA |
| B6-1 | 9/6/12 | 1 | ND | 5.0 | 28 | NA |
| B7-1 | 9/6/12 | 1 | ND | 6.2 | 49 | NA |
| B8-1 | 9/6/12 | 1 | ND | 2.7 | ND | NA |
| B8-3 | 9/6/12 | 3 | NA | NA | NA | NA |
| B9-1 | 9/6/12 | 1 | NA | NA | NA | NA |
| Reporting Limit | | ----- | 1.0 | 1.0 | 5.0 | 0.004 - 0.1 |
| Residential CHHSL | | ----- | NE | NE | NE | varies |
| Residential ESL | | ----- | 83 | 83 | 370 | varies |

mg/kg = milligrams per kilogram (parts per million or ppm)

NA = not analyzed

ND = not detected above the reporting limit

NE = none established

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

CHHSL = California human health screening level, California Environmental Protection Agency

ESL = Tier 1 environmental screening level, Table A, San Francisco Regional Water Quality Control Board, May 2008

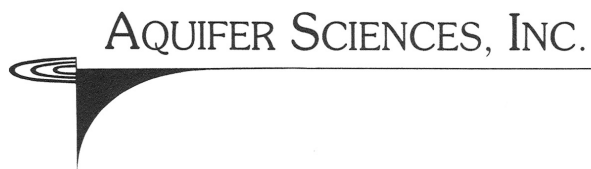


Table 3. ANALYTICAL DATA FOR SOIL – Metals
12710 and 12750 Mabury Road, San Jose, California

| Sampling Location | Sampling Date | Sample Depth (feet) | Antimony (mg/kg) | Arsenic (mg/kg) | Barium (mg/kg) | Beryllium (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Cobalt (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Mercury (mg/kg) | Molybdenum (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Thallium (mg/kg) | Vanadium (mg/kg) | Zinc (mg/kg) |
|-------------------|---------------|---------------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|----------------|----------------|--------------|-----------------|--------------------|----------------|------------------|----------------|------------------|------------------|--------------|
| B1-1 | 9/6/12 | 1 | NA | 6.3 | NA | NA | NA | NA | NA | NA | 7.6 | NA | NA | NA | NA | NA | NA | NA | NA |
| B1-3 | 9/6/12 | 3 | NA | 9.5 | NA | NA | NA | NA | NA | NA | 8.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| B2-1 | 9/6/12 | 1 | 1.6 | 10 | 490 | 0.55 | 0.48 | 65 | 14 | 59 | 25 | 0.087 | 0.93 | 86 | ND | ND | ND | 52 | 230 |
| B2-3 | 9/6/12 | 3 | NA | 7.5 | NA | NA | NA | NA | NA | NA | 15 | NA | NA | NA | NA | NA | NA | NA | NA |
| B3-1 | 9/6/12 | 1 | 0.54 | 10 | 240 | ND | 0.26 | 56 | 12 | 53 | 23 | 0.066 | 0.83 | 71 | ND | ND | ND | 44 | 61 |
| B3-3 | 9/6/12 | 3 | NA | 9.1 | NA | NA | NA | NA | NA | NA | 8.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| B4-1 | 9/6/12 | 1 | NA | 8.6 | NA | NA | NA | NA | NA | NA | 14 | NA | NA | NA | NA | NA | NA | NA | NA |
| B4-3 | 9/6/12 | 3 | NA | 7.9 | NA | NA | NA | NA | NA | NA | 7.5 | NA | NA | NA | NA | NA | NA | NA | NA |
| B5-1 | 9/6/12 | 1 | NA | 6.3 | NA | NA | NA | NA | NA | NA | 17 | NA | NA | NA | NA | NA | NA | NA | NA |
| B6-1 | 9/6/12 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| B7-1 | 9/6/12 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| B8-1 | 9/6/12 | 1 | NA | 8.5 | NA | NA | NA | NA | NA | NA | 48 | NA | NA | NA | NA | NA | NA | NA | NA |
| B8-3 | 9/6/12 | 3 | NA | 6.3 | NA | NA | NA | NA | NA | NA | 6.3 | NA | NA | NA | NA | NA | NA | NA | NA |
| B9-1 | 9/6/12 | 1 | NA | 8.3 | NA | NA | NA | NA | NA | NA | 13 | NA | NA | NA | NA | NA | NA | NA | NA |
| Reporting Limit | | ---- | 0.5 | 0.5 | 5.0 | 0.5 | 0.25 | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5.0 |
| Residential CHHSL | | ---- | 30 | 0.07 | 5,200 | 150 | 1.7 | 100,000 | 660 | 3,000 | 80 | 18 | 380 | 1,600 | 380 | 380 | 5.0 | 530 | 23,000 |
| Residential ESL | | ---- | 6.3 | 0.39 | 750 | 4.0 | 1.7 | 750 | 40 | 230 | 200 | 1.3 | 40 | 150 | 10 | 20 | 1.3 | 16 | 600 |
| STLC (mg/L) | | ---- | 15 | 5.0 | 100 | 0.75 | 1.0 | 5.0 | 8.0 | 25 | 5.0 | 0.2 | 350 | 20 | 1.0 | 5.0 | 7.0 | 24 | 250 |

mg/kg = milligrams per kilogram (parts per million or ppm)

NA = not analyzed

ND = not detected

CHHSL = California human health screening level, California Environmental Protection Agency

ESL = Tier 1 environmental screening level, Table A, San Francisco Regional Water Quality Control Board, May 2008

STLC = Soluble Threshold Limit Concentration (units are mg/L)

6.3 = Bold font indicates that the concentration exceeds the ESL and/or the CHHSL.

65 = Shaded value indicates that the concentration exceeds ten times the STLC for the compound.

Table 4. ANALYTICAL DATA FOR GROUNDWATER – Petroleum Hydrocarbons and VOCs
12710 and 12750 Mabury Road, San Jose, California

| Sampling Location | Sampling Date | TPH-gasoline ($\mu\text{g/L}$) | TPH-diesel ($\mu\text{g/L}$) | TPH-motor oil ($\mu\text{g/L}$) | VOCs ($\mu\text{g/L}$) |
|-------------------|---------------|----------------------------------|--------------------------------|-----------------------------------|--------------------------|
| B2 | 9/6/12 | ND | ND | ND | ND |
| B8 | 9/6/12 | ND | ND | ND | ND |
| Reporting Limit | | 50 | 50 | 250 | 0.2 - 10 |
| ESL | | 100 | 100 | 100 | varies |

$\mu\text{g/L}$ = micrograms per liter (parts per billion or ppb)

ND = not detected

TPH-gasoline = total petroleum hydrocarbons, quantified as gasoline

TPH-diesel = total petroleum hydrocarbons, quantified as diesel

TPH-motor oil = total petroleum hydrocarbons, quantified as motor oil

VOCs = volatile organic compounds

ESL = Tier 1 environmental screening level, Table A, San Francisco Regional Water Quality Control Board, May 2008

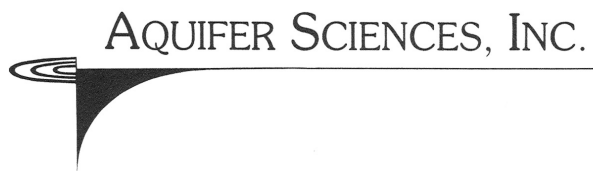


Table 5. ANALYTICAL DATA FOR GROUNDWATER – Metals
12710 and 12750 Mabury Road, San Jose, California

| Sampling Location | Sampling Date | Antimony ($\mu\text{g/L}$) | Arsenic ($\mu\text{g/L}$) | Barium ($\mu\text{g/L}$) | Beryllium ($\mu\text{g/L}$) | Cadmium ($\mu\text{g/L}$) | Chromium ($\mu\text{g/L}$) | Cobalt ($\mu\text{g/L}$) | Copper ($\mu\text{g/L}$) | Lead ($\mu\text{g/L}$) | Mercury ($\mu\text{g/L}$) | Molybdenum ($\mu\text{g/L}$) | Nickel ($\mu\text{g/L}$) | Selenium ($\mu\text{g/L}$) | Silver ($\mu\text{g/L}$) | Thallium ($\mu\text{g/L}$) | Vanadium ($\mu\text{g/L}$) | Zinc ($\mu\text{g/L}$) |
|-------------------|---------------|------------------------------|-----------------------------|----------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|--------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|------------------------------|--------------------------|
| B2 | 9/6/12 | ND < 2.6 | ND < 1.8 | 36 | ND < 0.70 | ND < 0.40 | 3.3 | 2.5 | 4 | ND < 1.0 | 0.21 | 8.0 | 8.7 | 22 | ND < 1.2 | ND < 0.40 | 1.5 | 41 |
| B8 | 9/6/12 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Reporting Limit | ----- | 0.5 | 0.5 | 5.0 | 0.5 | 0.25 | 0.5 | 0.5 | 0.5 | 0.5 | 0.025 | 0.5 | 0.5 | 0.5 | 0.19 | 0.5 | 0.5 | 5.0 |
| ESL | ----- | 6.0 | 50 | 1,000 | 4.0 | 5.0 | 21 | 140 | 1,000 | 15 | 2.0 | 35 | 100 | 50 | 35 | 2.0 | 15 | 5,000 |

$\mu\text{g/L}$ = micrograms per liter (parts per billion or ppb)

ND = not detected

ESL = Tier 1 environmental screening level, Table A, San Francisco Regional Water Quality Control Board, May 2008

Note: Reporting limit raised due to high non-reported metals content (salts of sodium, calcium, and magnesium, possibly associated with leach field).

APPENDIX A

DRILLING LOGS

AQUIFER SCIENCES, INC.

PROJECT NAME

212563

NO.

B1

| | | | | | |
|---------------------------------------------------------|--|---------------------------|--|-------------------------|--|
| DRILLING LOCATION 12710 & 12750 Mabury Rd. San Jose, CA | | ELEVATION AND DATUM (FT.) | | | |
| DRILLING AGENCY ECA | | DRILLER Grant | | DATE STARTED 9/6/12 | |
| DRILLING METHOD Direct Push | | DRILL BIT | | DATE FINISHED 9/6/12 | |
| DRILLING EQUIPMENT 2010 Bobcat 5410 truckmounted | | SAMPLER | | BORING DEPTH (FT.) 6 | |
| SIZE AND TYPE OF CASING | | NO. OF SAMPLES | | WELL DEPTH (FT.) | |
| TYPE OF PERFORATION | | DEPTH TO WATER (FT.) | | COMPLETION | |
| FROM TO FT. | | FIRST | | OTHER | |
| SIZE AND TYPE OF FILTER PACK | | LOGGED BY: JF | | CHECKED BY: [Signature] | |
| TYPE OF SEAL | | FROM TO FT. | | | |
| TYPE OF SEAL | | FROM TO FT. | | | |

| DEPTH (FEET) | DESCRIPTION | GRAPHIC LOG | | Water Level | SAMPLES | | | | REMARKS (Drilling Rate, Fluid Loss, Odor, etc.) |
|--------------|-------------------------------|-------------|---------------------------|-------------|-------------------|--------------|-------------------------|------------------------|----------------------------------------------------|
| | | Lithology | Well Construction Diagram | | Sampling Interval | Recovery (%) | Blow Counts (per 6 in.) | OVM (ppmv) | |
| 1 | Gravel - fill | | | | | | | start time @0930 | |
| 1 | Silty sand w/ gravel 1/2 in Ø | GM | | | | | | soil sample B1-1 @0939 | |
| 2 | Subrounded clasts | | | | | | | | |
| 3 | | | | | | | | sample B1-3 @0941 | |
| 4 | | | | | | | | | |
| 5 | | SM | | | | | | | |
| 5 | Silty sand no-gravel | | | | | | | sample B1-6 @0945 | |
| 6 | Bottom at Boring 6' | | | | | | | | |

BORING NUMBER

B1

SHEET 1 of 1

AQUIFER SCIENCES, INC.





PROJECT NAME

212563

NO.

B2

| | | | | | |
|--------------------------------------------------------|------------------|-------------------------------|-----------|-------------------------|-------|
| DRILLING LOCATION 12710 & 12750 Mabury Rd, San Jose | | ELEVATION AND DATUM (FT.) | | | |
| DRILLING AGENCY ECA | DRILLER Brent | DATE STARTED 9/6/12 | | DATE FINISHED 9/6/12 | |
| DRILLING METHOD Direct Push | DRILL BIT | BORING DEPTH (FT.) 28 | | WELL DEPTH (FT.) | |
| DRILLING EQUIPMENT Geoprobe 5410 truck-mounted | SAMPLER | NO. OF SAMPLES 3 | SOIL 3 | GW 1 | OTHER |
| SIZE AND TYPE OF CASING | | DEPTH TO WATER (FT.) 25.5' | FIRST | COMPLETION | OTHER |
| TYPE OF PERFORATION | FROM TO FT. | LOGGED BY: JES | | CHECKED BY: RS | |
| SIZE AND TYPE OF FILTER PACK | FROM TO FT. | | | | |
| TYPE OF SEAL | FROM TO FT. | | | | |
| TYPE OF SEAL | FROM TO FT. | | | | |

| DEPTH (FEET) | DESCRIPTION | GRAPHIC LOG | | Water Level | SAMPLES | | | REMARKS (Drilling Rate, Fluid Loss, Odor, etc.) |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------|-------------|---------------------------------------------------------------------------------------|-------------------------|------------|----------------------------------------------------|
| | | Lithology | Well Construction Diagram | | Recovery (%) | Blow Counts (per 6 in.) | OCM (ppmv) | |
| 1 | silty sand w/gravel 1/2 in Ø 1-brown  | GM | | |  | | | start time @ 0950 |
| 2 | | | | | | | | sample B2-1 @ 0955 |
| 3 | | | | | | | | sample B2-3 @ 1000 |
| 4 | | | | | | | | |
| 5 | Silty Sand 1-brown | SM | | | | | | |
| 6 | | | | |  | | | sample B2-6 @ 1004 |
| 7 | | | | | | | | |
| 8 | clay w/silt d-brown med. plasticity, moist | CL | | | | | | |
| 9 | | | | | | | | |
| 10 | silty sand w/gravel sub rounded 1/4 | GM | | | | | | |
| 11 |  increased clay w/gravel | | | | | | | |
| 12 | | | | | | | | |
| 13 | clay silty 1-brown w/gravel | GC | | | | | | |

BORING NUMBER

B2

SHEET 1 of 2

AQUIFER SCIENCES, INC.

PROJECT NAME

212563

NO.

B2

| | | | |
|---------------------------------------------------------|---------------|----------------------------|----------------------|
| DRILLING LOCATION 12710 & 12750 Mabury Rd, San Jose, CA | | ELEVATION AND DATUM (FT.) | |
| DRILLING AGENCY ECA | DRILLER Brent | DATE STARTED 9/6/12 | DATE FINISHED 9/6/12 |
| DRILLING METHOD Direct Push | DRILL BIT | BORING DEPTH (FT.) 28 | WELL DEPTH (FT.) |
| DRILLING EQUIPMENT Geoprobe 5416 truckmounted | SAMPLER | NO. OF SAMPLES | SOIL 3 |
| SIZE AND TYPE OF CASING | | DEPTH TO WATER (FT.) 25.5' | COMPLETION |
| TYPE OF PERFORATION | FROM TO FT. | LOGGED BY: | CHECKED BY: |
| SIZE AND TYPE OF FILTER PACK | FROM TO FT. | | |
| TYPE OF SEAL | FROM TO FT. | | |
| TYPE OF SEAL | FROM TO FT. | | |

| DEPTH (FEET) | DESCRIPTION | GRAPHIC LOG | | Water Level | SAMPLES | | | | REMARKS (Drilling Rate, Fluid Loss, Odor, etc.) |
|--------------|---------------------------|-------------|---------------------------|-------------|-------------------|--------------|-------------------------|------------|----------------------------------------------------|
| | | Lithology | Well Construction Diagram | | Sampling Interval | Recovery (%) | Blow Counts (per 6 in.) | GVM (ppmv) | |
| 15 | clay w/ silt no gravel | ML | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | moist sand & silt mottled | SM | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | silty clay w/ organics | ML | | | | | | | GLW sample @ 1300 B2 |
| 26 | sand & silt | SM | | | | | | | First water @ 25.5' |
| 27 | | | | | | | | | |

Bottom of Boring 28'

BORING NUMBER

B2

SHEET

2 of 2

AQUIFER SCIENCES, INC.

PROJECT NAME 212563

NO. B3

| | | | |
|--------------------------------------------------------------------|----------------------|----------------------------|-----------------------------|
| DRILLING LOCATION <u>12710 & 12750 Mabury Rd, San Jose, CA</u> | | ELEVATION AND DATUM (FT.) | |
| DRILLING AGENCY <u>ECA</u> | DRILLER <u>Brent</u> | DATE STARTED <u>9/6/12</u> | DATE FINISHED <u>9/6/12</u> |
| DRILLING METHOD <u>Direct Push</u> | DRILL BIT | BORING DEPTH (FT.) | WELL DEPTH (FT.) |
| DRILLING EQUIPMENT <u>Geoprobe 5410 truck-mounted</u> | SAMPLER | NO. OF SAMPLES | SOIL <u>3</u> |
| SIZE AND TYPE OF CASING | | DEPTH TO WATER (FT.) | FIRST |
| TYPE OF PERFORATION | FROM TO FT. | COMPLETION | OTHER |
| SIZE AND TYPE OF FILTER PACK | FROM TO FT. | LOGGED BY: | CHECKED BY: |
| TYPE OF SEAL | FROM TO FT. | <u>JB</u> | <u>JS</u> |
| TYPE OF SEAL | FROM TO FT. | | |

| DEPTH (FEET) | DESCRIPTION | GRAPHIC LOG | | Water Level | SAMPLES | | | | REMARKS (Drilling Rate, Fluid Loss, Odor, etc.) | |
|-----------------|------------------------------|-------------|---------------------------|-------------|-------------------|--------------|-------------------------|------------|----------------------------------------------------|--------------------|
| | | Lithology | Well Construction Diagram | | Sampling Interval | Recovery (%) | Blow Counts (per 6 in.) | QVM (ppmv) | | |
| 1 | silty soil 1. brown ↓ | ML | | | X | | | | split line @ 1055 | |
| 2 | | | | | | | | | | sample B3-1 @ 1100 |
| 3 | | | | | X | | | | | sample B3-3 @ 1105 |
| 4 | silt 1. brown. w/ gravel. | GM | | | | | | | | |
| 5 | | | | | X | | | | | sample B3-6 @ 1106 |
| 6 | Bottom of Boring = 6' | | | | | | | | | |

BORING NUMBER B3

SHEET 1 of 1

AQUIFER SCIENCES, INC.

PROJECT NAME

212563

NO.

B4

| | | | | | |
|------------------------------------------------------------|------------------|---------------------------|-----------|-------------------------|-------|
| DRILLING LOCATION 12710 & 12750 Mabury Rd, San Jose, CA | | ELEVATION AND DATUM (FT.) | | | |
| DRILLING AGENCY ECA | DRILLER Brent | DATE STARTED 9/6/12 | | DATE FINISHED 9/6/12 | |
| DRILLING METHOD Geoprobe Direct Push | DRILL BIT | BORING DEPTH (FT.) 6 | | WELL DEPTH (FT.) | |
| DRILLING EQUIPMENT Geoprobe S410 truck-mounted | SAMPLER | NO. OF SAMPLES 3 | SOIL 3 | GW | OTHER |
| SIZE AND TYPE OF CASING | | DEPTH TO WATER (FT.) | FIRST | COMPLETION | OTHER |
| TYPE OF PERFORATION | FROM TO FT. | LOGGED BY: JF | | CHECKED BY: JF | |
| SIZE AND TYPE OF FILTER PACK | FROM TO FT. | | | | |
| TYPE OF SEAL | FROM TO FT. | | | | |
| TYPE OF SEAL | FROM TO FT. | | | | |

| DEPTH (FEET) | DESCRIPTION | GRAPHIC LOG | | Water Level | SAMPLES | | | | REMARKS (Drilling Rate, Fluid Loss, Odor, etc.) |
|--------------|---------------------------------------|-------------|---------------------------|-------------|-------------------|--------------|-------------------------|------------|----------------------------------------------------|
| | | Lithology | Well Construction Diagram | | Sampling Interval | Recovery (%) | Blow Counts (per 6 in.) | QVM (ppmv) | |
| 1 | organs 1. brown soil | ML | | | | | | | start time @ 1115 |
| 2 | silt w/ clay | | | | | | | | B4-1 @ 1119 |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | sample B4-3 @ 1121 |
| 5 | sand-silt 1. brown w/ gravel 1/2 in d | GM | | | | | | | |
| 6 | | | | | | | | | sample B4-6 @ 1123 |
| | Bottom of Boring 6' | | | | | | | | |

BORING NUMBER

B4



SHEET 1 of 1

AQUIFER SCIENCES, INC.

PROJECT NAME

212563

NO. 38

| | | | | | | | |
|-------------------------------------------------------------|--|------------------|---------------------------|---------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|
| DRILLING LOCATION 12710 & 12750 Marbury Rd, San Jose, CA | | | ELEVATION AND DATUM (FT.) | | | | |
| DRILLING AGENCY ECL | | DRILLER Brant | | DATE STARTED 9/6/12 | | DATE FINISHED 9/6/12 | |
| DRILLING METHOD Direct Push | | DRILL BIT | | BORING DEPTH (FT.) 32 | | WELL DEPTH (FT.) | |
| DRILLING EQUIPMENT Geoprobe 5410 | | SAMPLER | | NO. OF SAMPLES | | SOIL 3 | |
| SIZE AND TYPE OF CASING | | | | DEPTH TO WATER (FT.) | | FIRST | |
| TYPE OF PERFORATION | | FROM | | TO | | FT. | |
| SIZE AND TYPE OF FILTER PACK | | FROM | | TO | | FT. | |
| TYPE OF SEAL | | FROM | | TO | | FT. | |
| TYPE OF SEAL | | FROM | | TO | | FT. | |
| | | | | LOGGED BY:  | | CHECKED BY:  | |

[illegible]

BORING NUMBER

BS

SHEET 1 of 1

APPENDIX B

LABORATORY REPORT

AND

CHAIN-OF-CUSTODY DOCUMENTATION



Analytical Report

| | | |
|---------------------------------------------------------------------------------|-----------------------------|--------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Reported: 09/13/12 |
| | Client P.O.: | Date Completed: 09/12/12 |

WorkOrder: 1209114

September 13, 2012

Dear Cheri:

Enclosed within are:

- 1) The results of the **14** analyzed samples from your project: **#212563**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

AQUIFER SCIENCES, INC.

3680-A Mt. Diablo Blvd.
Lafayette, CA 94549

(925) 283-9098
(925) 283-9133 FAX

CHAIN OF CUSTODY

GLOBAL ID# 1209114

Project Number: 212563

Sampler(s) Signature(s): John K. Ben

Number of Containers and Preservative

| Sample Identification | Date | Time | Sample Type | Unpreserved | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | Diesel | Gasoline | Motor Oil | silica gel cleanup | BTEX | MTBE | Halogenated VOCs | Aromatic VOCs | Fuel VOCs | SVOCs | PAHs | Pesticides | PCBs | LUFT 5 | 13 Priority Poll. | Argenic | Lead |
|-----------------------|--------|------|-------------|-------------|-----|------------------|--------------------------------|------|--------|----------|-----------|--------------------|------|------|------------------|---------------|-----------|-------|------|------------|------|--------|-------------------|---------|------|
| B1-1 | 9/6/12 | 0939 | soil | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B1-3 | | 0941 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B2-1 | | 0955 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B2-3 | | 1000 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B3-1 | | 1100 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B3-3 | | 1105 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B4-1 | | 1119 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B4-3 | | 1121 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B5-1 | | 1245 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B6-1 | | 1235 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B7-1 | | 1230 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B8-1 | | 1130 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B8-3 | | 1137 | | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| B9-1 | ✓ | 1238 | ✓ | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

Results: ☒ Email ☐ FAX ☐ EDF ☐ GeoTracker

Turn-around time: ☐ 10-day ☒ 15-day ☐ 21-day

Contact: Becky or Chari

Email: rs @aquifer.com
cwhipp@aquifer.com; jervens@aquifer.com

Comments: Quote #2606
Must meet ESLs 8081

| Relinquished by | Date | Time | Received by | Date | Time |
|----------------------------------------------------------|---------------|-------------|------------------------------------------------------------|-------------------------------|---------------------------|
| <u>John K. Ben</u> | <u>9/6/12</u> | <u>1528</u> | <u>Monica V</u> | <u>9/6/12</u> | <u>1528</u> |
| ICE# <u>3.8</u> | | | | | |
| GOOD CONDITION <input checked="" type="checkbox"/> | | | APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> | | |
| HEAD SPACE ABSENT <input checked="" type="checkbox"/> | | | PRESERVED IN LAB <input checked="" type="checkbox"/> | | |
| DECHLORINATED IN LAB <input checked="" type="checkbox"/> | | | | | |
| Analytical laboratory: <u>McCampbell Analytical</u> | PRESERVATION | VOAS | O&G | METALS | OTHER |
| | | | | Shipping notes: <u>via MM</u> | |
| | | | | | Page <u>1</u> of <u>1</u> |



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1209114

ClientCode: ASI

☐ WaterTrax☐ WriteOn☐ EDF☐ Excel☒ EquiS☒ Email☐ HardCopy☐ ThirdParty☐ J-flag

Report to:

Cheri Whipp
Aquifer Sciences, Inc.
3680-A Mt. Diablo Blvd
Lafayette, CA 94549
925-283-9098 FAX: 925-283-9133

Email: ras@aquifer.com; cwhipp@aquifer.com
cc: jevans@aquifer.com
PO:
ProjectNo: #212563

Bill to:

Accounts Payable
Aquifer Sciences, Inc.
3680-A Mt. Diablo Blvd
Lafayette, CA 94549

Requested TAT:

5 days

Date Received: 09/06/2012

Date Printed: 09/06/2012

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1209114-001 | B1-1 | Soil | 9/6/2012 9:39 | <input type="checkbox"/> | A | A | | A | A | | | | | | | |
| 1209114-002 | B1-3 | Soil | 9/6/2012 9:41 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-003 | B2-1 | Soil | 9/6/2012 9:55 | <input type="checkbox"/> | A | A | A | | A | | | | | | | |
| 1209114-004 | B2-3 | Soil | 9/6/2012 10:00 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-005 | B3-1 | Soil | 9/6/2012 11:00 | <input type="checkbox"/> | A | | A | | | | | | | | | |
| 1209114-006 | B3-3 | Soil | 9/6/2012 11:05 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-007 | B4-1 | Soil | 9/6/2012 11:19 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-008 | B4-3 | Soil | 9/6/2012 11:21 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-009 | B5-1 | Soil | 9/6/2012 12:45 | <input type="checkbox"/> | A | | | A | A | | | | | | | |
| 1209114-010 | B6-1 | Soil | 9/6/2012 12:35 | <input type="checkbox"/> | | | | | A | | | | | | | |
| 1209114-011 | B7-1 | Soil | 9/6/2012 12:30 | <input type="checkbox"/> | | | | | A | | | | | | | |
| 1209114-012 | B8-1 | Soil | 9/6/2012 11:30 | <input type="checkbox"/> | A | | | A | A | | | | | | | |
| 1209114-013 | B8-3 | Soil | 9/6/2012 11:37 | <input type="checkbox"/> | A | | | A | | | | | | | | |
| 1209114-014 | B9-1 | Soil | 9/6/2012 12:38 | <input type="checkbox"/> | A | | | A | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|--------|----|---------|---|-----------|---|----------|----|---------------|
| 1 | 8081_S | 2 | 8260B_S | 3 | CAM17MS_S | 4 | PBASMS_S | 5 | TPH(DMO)WSG_S |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

The following SampIDs: 001A, 003A, 009A, 010A, 011A, 012A contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Aquifer Sciences, Inc.**

Date and Time Received: **9/6/2012 6:04:36 PM**

Project Name: **#212563**

Login Reviewed by: **Maria Venegas**

WorkOrder N°: **1209114**

Matrix: Soil

Carrier: Client Drop-In

Chain of Custody (COC) Information

| | | |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

| | | | |
|----------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

| | | | |
|-----------------------------------------------------|-----------------------------------------|----------------------------------------|------------------------------------------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: 3.8°C | | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Metal - pH acceptable upon receipt (pH<2)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |

* NOTE: If the "No" box is checked, see comments below.

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

| | | |
|---------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted: 09/06/12 |
| | Client P.O.: | Date Analyzed: 09/07/12-09/08/12 |

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3550B

Analytical Method: SW8081A

Work Order: 1209114

| Lab ID | 1209114-001A | 1209114-002A | 1209114-003A | 1209114-004A | Reporting Limit for DF =1 | |
|---------------------------|---------------|--------------|--------------|--------------|------------------------------|-------|
| Client ID | B1-1 | B1-3 | B2-1 | B2-3 | | |
| Matrix | S | S | S | S | | |
| DF | 1 | 1 | 1 | 1 | | |
| Compound | Concentration | | | | mg/kg | mg/kg |
| Aldrin | ND | ND | ND | ND | 0.00027 | 0.001 |
| a-BHC | ND | ND | ND | ND | 0.0001 | 0.001 |
| b-BHC | ND | ND | ND | ND | 0.00025 | 0.001 |
| d-BHC | ND | ND | ND | ND | 0.00037 | 0.001 |
| g-BHC | ND | ND | ND | ND | 0.000097 | 0.001 |
| Chlordane (Technical) | ND | ND | ND | ND | 0.016 | 0.025 |
| a-Chlordane | ND | ND | ND | ND | 0.00047 | 0.001 |
| g-Chlordane | ND | ND | ND | ND | 0.00021 | 0.001 |
| p,p-DDD | ND | ND | ND | ND | 0.00014 | 0.001 |
| p,p-DDE | 0.00088,J | ND | 0.0039 | 0.00067,J | 0.00032 | 0.001 |
| p,p-DDT | ND | ND | 0.0070 | ND | 0.00043 | 0.001 |
| Dieldrin | ND | ND | ND | ND | 0.00033 | 0.001 |
| Endosulfan I | ND | ND | ND | ND | 0.00065 | 0.001 |
| Endosulfan II | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endosulfan sulfate | ND | ND | ND | ND | 0.00063 | 0.001 |
| Endrin | ND | ND | ND | ND | 0.00097 | 0.001 |
| Endrin aldehyde | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endrin ketone | ND | ND | ND | ND | 0.00013 | 0.001 |
| Heptachlor | ND | ND | ND | ND | 0.00021 | 0.001 |
| Heptachlor epoxide | ND | ND | ND | ND | 0.0002 | 0.001 |
| Hexachlorobenzene | ND | ND | ND | ND | 0.00027 | 0.01 |
| Hexachlorocyclopentadiene | ND | ND | ND | ND | 0.0004 | 0.02 |
| Methoxychlor | ND | ND | ND | ND | 0.00089 | 0.001 |
| Toxaphene | ND | ND | ND | ND | 0.035 | 0.05 |

Surrogate Recoveries (%)

| | | | | | |
|----------|-----|-----|-----|-----|--|
| %SS: | 111 | 110 | 100 | 107 | |
| Comments | | | | | |

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak/sample contains surrogate.

J) analyte detected below quantitation limits



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| | | |
|---------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted: 09/06/12 |
| | Client P.O.: | Date Analyzed: 09/07/12-09/08/12 |

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3550B

Analytical Method: SW8081A

Work Order: 1209114

| Lab ID | 1209114-005A | 1209114-006A | 1209114-007A | 1209114-008A | Reporting Limit for DF =1 | |
|---------------------------|---------------|--------------|--------------|--------------|------------------------------|-------|
| Client ID | B3-1 | B3-3 | B4-1 | B4-3 | | |
| Matrix | S | S | S | S | | |
| DF | 1 | 1 | 1 | 1 | MDL | RL |
| Compound | Concentration | | | | mg/kg | mg/kg |
| Aldrin | ND | ND | ND | ND | 0.00027 | 0.001 |
| a-BHC | ND | ND | ND | ND | 0.0001 | 0.001 |
| b-BHC | ND | ND | ND | ND | 0.00025 | 0.001 |
| d-BHC | ND | ND | ND | ND | 0.00037 | 0.001 |
| g-BHC | ND | ND | 0.00021,J | ND | 0.000097 | 0.001 |
| Chlordane (Technical) | ND | ND | ND | ND | 0.016 | 0.025 |
| a-Chlordane | ND | ND | ND | ND | 0.00047 | 0.001 |
| g-Chlordane | ND | ND | 0.0014 | ND | 0.00021 | 0.001 |
| p,p-DDD | ND | ND | 0.0017 | ND | 0.00014 | 0.001 |
| p,p-DDE | 0.0044 | 0.00087,J | 0.23 | 0.0010 | 0.00032 | 0.001 |
| p,p-DDT | ND | 0.0067 | 0.036 | ND | 0.00043 | 0.001 |
| Dieldrin | ND | ND | ND | ND | 0.00033 | 0.001 |
| Endosulfan I | ND | ND | ND | ND | 0.00065 | 0.001 |
| Endosulfan II | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endosulfan sulfate | ND | ND | ND | ND | 0.00063 | 0.001 |
| Endrin | ND | ND | ND | ND | 0.00097 | 0.001 |
| Endrin aldehyde | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endrin ketone | ND | ND | ND | ND | 0.00013 | 0.001 |
| Heptachlor | ND | ND | ND | ND | 0.00021 | 0.001 |
| Heptachlor epoxide | ND | ND | ND | ND | 0.0002 | 0.001 |
| Hexachlorobenzene | ND | ND | ND | ND | 0.00027 | 0.01 |
| Hexachlorocyclopentadiene | ND | ND | ND | ND | 0.0004 | 0.02 |
| Methoxychlor | ND | ND | ND | ND | 0.00089 | 0.001 |
| Toxaphene | ND | ND | ND | ND | 0.035 | 0.05 |

Surrogate Recoveries (%)

| | | | | | |
|----------|-----|-----|-----|----|--|
| %SS: | 102 | 104 | 110 | 89 | |
| Comments | | | | | |

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak/sample contains surrogate.

J) analyte detected below quantitation limits



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| | | |
|---------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted: 09/06/12 |
| | Client P.O.: | Date Analyzed: 09/07/12-09/08/12 |

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3550B

Analytical Method: SW8081A

Work Order: 1209114

| Lab ID | 1209114-009A | 1209114-012A | 1209114-013A | 1209114-014A | Reporting Limit for DF =1 | |
|---------------------------|---------------|--------------|--------------|--------------|------------------------------|-------|
| Client ID | B5-1 | B8-1 | B8-3 | B9-1 | | |
| Matrix | S | S | S | S | | |
| DF | 1 | 1 | 1 | 1 | | |
| Compound | Concentration | | | | mg/kg | mg/kg |
| Aldrin | ND | ND | ND | ND | 0.00027 | 0.001 |
| a-BHC | ND | ND | ND | ND | 0.0001 | 0.001 |
| b-BHC | ND | ND | ND | ND | 0.00025 | 0.001 |
| d-BHC | ND | ND | ND | ND | 0.00037 | 0.001 |
| g-BHC | ND | ND | ND | ND | 0.000097 | 0.001 |
| Chlordane (Technical) | 0.018,J | ND | ND | ND | 0.016 | 0.025 |
| a-Chlordane | 0.0032 | ND | ND | ND | 0.00047 | 0.001 |
| g-Chlordane | 0.0015 | ND | ND | ND | 0.00021 | 0.001 |
| p,p-DDD | 0.00080,J | ND | ND | ND | 0.00014 | 0.001 |
| p,p-DDE | 0.047 | ND | ND | 0.0060 | 0.00032 | 0.001 |
| p,p-DDT | 0.036 | ND | ND | 0.0072 | 0.00043 | 0.001 |
| Dieldrin | ND | ND | ND | ND | 0.00033 | 0.001 |
| Endosulfan I | ND | ND | ND | ND | 0.00065 | 0.001 |
| Endosulfan II | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endosulfan sulfate | ND | ND | ND | ND | 0.00063 | 0.001 |
| Endrin | ND | ND | ND | ND | 0.00097 | 0.001 |
| Endrin aldehyde | ND | ND | ND | ND | 0.0002 | 0.001 |
| Endrin ketone | ND | ND | ND | ND | 0.00013 | 0.001 |
| Heptachlor | ND | ND | ND | ND | 0.00021 | 0.001 |
| Heptachlor epoxide | ND | ND | ND | ND | 0.0002 | 0.001 |
| Hexachlorobenzene | ND | ND | ND | ND | 0.00027 | 0.01 |
| Hexachlorocyclopentadiene | ND | ND | ND | ND | 0.0004 | 0.02 |
| Methoxychlor | ND | ND | ND | ND | 0.00089 | 0.001 |
| Toxaphene | ND | ND | ND | ND | 0.035 | 0.05 |

Surrogate Recoveries (%)

| | | | | | |
|----------|-----|-----|----|-----|--|
| %SS: | 113 | 106 | 97 | 102 | |
| Comments | | | | | |

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak/sample contains surrogate.

J) analyte detected below quantitation limits



Aquifer Sciences, Inc.

3680-A Mt. Diablo Blvd

Lafayette, CA 94549

Client Project ID: #212563

Client Contact: Cheri Whipp

Client P.O.:

Date Sampled: 09/06/12

Date Received: 09/06/12

Date Extracted: 09/06/12

Date Analyzed: 09/11/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1209114

| Lab ID | 1209114-001A | | | | | | |
|-------------------------------|-----------------|-----|-----------------|-------------------------------|-----------------|-----|-----------------|
| Client ID | B1-1 | | | | | | |
| Matrix | Soil | | | | | | |
| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
| Acetone | ND | 1.0 | 0.05 | tert-Amyl methyl ether (TAME) | ND | 1.0 | 0.005 |
| Benzene | ND | 1.0 | 0.005 | Bromobenzene | ND | 1.0 | 0.005 |
| Bromochloromethane | ND | 1.0 | 0.005 | Bromodichloromethane | ND | 1.0 | 0.005 |
| Bromoform | ND | 1.0 | 0.005 | Bromomethane | ND | 1.0 | 0.005 |
| 2-Butanone (MEK) | ND | 1.0 | 0.02 | t-Butyl alcohol (TBA) | ND | 1.0 | 0.05 |
| n-Butyl benzene | ND | 1.0 | 0.005 | sec-Butyl benzene | ND | 1.0 | 0.005 |
| tert-Butyl benzene | ND | 1.0 | 0.005 | Carbon Disulfide | ND | 1.0 | 0.005 |
| Carbon Tetrachloride | ND | 1.0 | 0.005 | Chlorobenzene | ND | 1.0 | 0.005 |
| Chloroethane | ND | 1.0 | 0.005 | Chloroform | ND | 1.0 | 0.005 |
| Chloromethane | ND | 1.0 | 0.005 | 2-Chlorotoluene | ND | 1.0 | 0.005 |
| 4-Chlorotoluene | ND | 1.0 | 0.005 | Dibromochloromethane | ND | 1.0 | 0.005 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.004 | 1,2-Dibromoethane (EDB) | ND | 1.0 | 0.004 |
| Dibromomethane | ND | 1.0 | 0.005 | 1,2-Dichlorobenzene | ND | 1.0 | 0.005 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.005 | 1,4-Dichlorobenzene | ND | 1.0 | 0.005 |
| Dichlorodifluoromethane | ND | 1.0 | 0.005 | 1,1-Dichloroethane | ND | 1.0 | 0.005 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 1.0 | 0.004 | 1,1-Dichloroethene | ND | 1.0 | 0.005 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.005 | trans-1,2-Dichloroethene | ND | 1.0 | 0.005 |
| 1,2-Dichloropropane | ND | 1.0 | 0.005 | 1,3-Dichloropropane | ND | 1.0 | 0.005 |
| 2,2-Dichloropropane | ND | 1.0 | 0.005 | 1,1-Dichloropropene | ND | 1.0 | 0.005 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.005 | trans-1,3-Dichloropropene | ND | 1.0 | 0.005 |
| Diisopropyl ether (DIPE) | ND | 1.0 | 0.005 | Ethylbenzene | ND | 1.0 | 0.005 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | 0.005 | Freon 113 | ND | 1.0 | 0.1 |
| Hexachlorobutadiene | ND | 1.0 | 0.005 | Hexachloroethane | ND | 1.0 | 0.005 |
| 2-Hexanone | ND | 1.0 | 0.005 | Isopropylbenzene | ND | 1.0 | 0.005 |
| 4-Isopropyl toluene | ND | 1.0 | 0.005 | Methyl-t-butyl ether (MTBE) | ND | 1.0 | 0.005 |
| Methylene chloride | ND | 1.0 | 0.005 | 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | 0.005 |
| Naphthalene | ND | 1.0 | 0.005 | n-Propyl benzene | ND | 1.0 | 0.005 |
| Styrene | ND | 1.0 | 0.005 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.005 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.005 | Tetrachloroethene | ND | 1.0 | 0.005 |
| Toluene | ND | 1.0 | 0.005 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.005 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.005 | 1,1,1-Trichloroethane | ND | 1.0 | 0.005 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.005 | Trichloroethene | ND | 1.0 | 0.005 |
| Trichlorofluoromethane | ND | 1.0 | 0.005 | 1,2,3-Trichloropropane | ND | 1.0 | 0.005 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.005 | 1,3,5-Trimethylbenzene | ND | 1.0 | 0.005 |
| Vinyl Chloride | ND | 1.0 | 0.005 | Xylenes, Total | ND | 1.0 | 0.005 |

Surrogate Recoveries (%)

| | | | |
|-------|-----|-------|-----|
| %SS1: | 114 | %SS2: | 112 |
| %SS3: | 113 | | |

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



Aquifer Sciences, Inc.

3680-A Mt. Diablo Blvd

Lafayette, CA 94549

Client Project ID: #212563

Client Contact: Cheri Whipp

Client P.O.:

Date Sampled: 09/06/12

Date Received: 09/06/12

Date Extracted: 09/06/12

Date Analyzed: 09/11/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1209114

| Lab ID | 1209114-003A | | | | | | |
|-------------------------------|-----------------|-----|-----------------|-------------------------------|-----------------|-----|-----------------|
| Client ID | B2-1 | | | | | | |
| Matrix | Soil | | | | | | |
| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
| Acetone | ND | 1.0 | 0.05 | tert-Amyl methyl ether (TAME) | ND | 1.0 | 0.005 |
| Benzene | ND | 1.0 | 0.005 | Bromobenzene | ND | 1.0 | 0.005 |
| Bromochloromethane | ND | 1.0 | 0.005 | Bromodichloromethane | ND | 1.0 | 0.005 |
| Bromoform | ND | 1.0 | 0.005 | Bromomethane | ND | 1.0 | 0.005 |
| 2-Butanone (MEK) | ND | 1.0 | 0.02 | t-Butyl alcohol (TBA) | ND | 1.0 | 0.05 |
| n-Butyl benzene | ND | 1.0 | 0.005 | sec-Butyl benzene | ND | 1.0 | 0.005 |
| tert-Butyl benzene | ND | 1.0 | 0.005 | Carbon Disulfide | ND | 1.0 | 0.005 |
| Carbon Tetrachloride | ND | 1.0 | 0.005 | Chlorobenzene | ND | 1.0 | 0.005 |
| Chloroethane | ND | 1.0 | 0.005 | Chloroform | ND | 1.0 | 0.005 |
| Chloromethane | ND | 1.0 | 0.005 | 2-Chlorotoluene | ND | 1.0 | 0.005 |
| 4-Chlorotoluene | ND | 1.0 | 0.005 | Dibromochloromethane | ND | 1.0 | 0.005 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.004 | 1,2-Dibromoethane (EDB) | ND | 1.0 | 0.004 |
| Dibromomethane | ND | 1.0 | 0.005 | 1,2-Dichlorobenzene | ND | 1.0 | 0.005 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.005 | 1,4-Dichlorobenzene | ND | 1.0 | 0.005 |
| Dichlorodifluoromethane | ND | 1.0 | 0.005 | 1,1-Dichloroethane | ND | 1.0 | 0.005 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 1.0 | 0.004 | 1,1-Dichloroethene | ND | 1.0 | 0.005 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.005 | trans-1,2-Dichloroethene | ND | 1.0 | 0.005 |
| 1,2-Dichloropropane | ND | 1.0 | 0.005 | 1,3-Dichloropropane | ND | 1.0 | 0.005 |
| 2,2-Dichloropropane | ND | 1.0 | 0.005 | 1,1-Dichloropropene | ND | 1.0 | 0.005 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.005 | trans-1,3-Dichloropropene | ND | 1.0 | 0.005 |
| Diisopropyl ether (DIPE) | ND | 1.0 | 0.005 | Ethylbenzene | ND | 1.0 | 0.005 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | 0.005 | Freon 113 | ND | 1.0 | 0.1 |
| Hexachlorobutadiene | ND | 1.0 | 0.005 | Hexachloroethane | ND | 1.0 | 0.005 |
| 2-Hexanone | ND | 1.0 | 0.005 | Isopropylbenzene | ND | 1.0 | 0.005 |
| 4-Isopropyl toluene | ND | 1.0 | 0.005 | Methyl-t-butyl ether (MTBE) | ND | 1.0 | 0.005 |
| Methylene chloride | ND | 1.0 | 0.005 | 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | 0.005 |
| Naphthalene | ND | 1.0 | 0.005 | n-Propyl benzene | ND | 1.0 | 0.005 |
| Styrene | ND | 1.0 | 0.005 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.005 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.005 | Tetrachloroethene | ND | 1.0 | 0.005 |
| Toluene | ND | 1.0 | 0.005 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.005 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.005 | 1,1,1-Trichloroethane | ND | 1.0 | 0.005 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.005 | Trichloroethene | ND | 1.0 | 0.005 |
| Trichlorofluoromethane | ND | 1.0 | 0.005 | 1,2,3-Trichloropropane | ND | 1.0 | 0.005 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.005 | 1,3,5-Trimethylbenzene | ND | 1.0 | 0.005 |
| Vinyl Chloride | ND | 1.0 | 0.005 | Xylenes, Total | ND | 1.0 | 0.005 |

Surrogate Recoveries (%)

| | | | |
|-------|-----|-------|-----|
| %SS1: | 113 | %SS2: | 110 |
| %SS3: | 113 | | |

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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| | | |
|---------------------------------------------------------------------------------|-----------------------------|-------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted 09/06/12 |
| | Client P.O.: | Date Analyzed 09/08/12 |

CAM / CCR 17 Metals*

| | | | | | | |
|-----------------|--------------|--------------|--|--|----------------------------------------------------------------------------------|------|
| Lab ID | 1209114-003A | 1209114-005A | | | Reporting Limit for DF =1; ND means not detected above the reporting limit | |
| Client ID | B2-1 | B3-1 | | | | |
| Matrix | S | S | | | | |
| Extraction Type | TOTAL | TOTAL | | | mg/Kg | mg/L |

ICP Metals, Concentration*

Analytical Method: SW6020

Extraction Method: SW3050B

Work Order: 1209114

| Dilution Factor | 1 | 1 | | | 1 | 1 |
|-----------------|-------|-------|--|--|------|----|
| Antimony | 1.6 | 0.54 | | | 0.5 | NA |
| Arsenic | 10 | 10 | | | 0.5 | NA |
| Barium | 490 | 240 | | | 5.0 | NA |
| Beryllium | 0.55 | ND | | | 0.5 | NA |
| Cadmium | 0.48 | 0.26 | | | 0.25 | NA |
| Chromium | 65 | 56 | | | 0.5 | NA |
| Cobalt | 14 | 12 | | | 0.5 | NA |
| Copper | 59 | 53 | | | 0.5 | NA |
| Lead | 25 | 23 | | | 0.5 | NA |
| Mercury | 0.087 | 0.066 | | | 0.05 | NA |
| Molybdenum | 0.93 | 0.83 | | | 0.5 | NA |
| Nickel | 86 | 71 | | | 0.5 | NA |
| Selenium | ND | ND | | | 0.5 | NA |
| Silver | ND | ND | | | 0.5 | NA |
| Thallium | ND | ND | | | 0.5 | NA |
| Vanadium | 52 | 44 | | | 0.5 | NA |
| Zinc | 230 | 61 | | | 5.0 | NA |
| %SS: | 126 | 111 | | | | |

| | | | | | |
|----------|--|--|--|--|--|
| Comments | | | | | |
|----------|--|--|--|--|--|

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 μm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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| | | |
|---------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted 09/06/12 |
| | Client P.O.: | Date Analyzed 09/07/12-09/08/12 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1209114

| Lab ID | Client ID | Matrix | TPH(g) | DF | % SS | Comments |
|--------|-----------|--------|--------|----|------|----------|
| 001A | B1-1 | S | ND | 1 | 114 | |
| 003A | B2-1 | S | ND | 1 | 108 | |
| 009A | B5-1 | S | ND | 1 | 102 | |
| 010A | B6-1 | S | ND | 1 | 100 | |
| 011A | B7-1 | S | ND | 1 | 102 | |
| 012A | B8-1 | S | ND | 1 | 111 | |
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|----------------------------------------------------------------------------------------|---|-----|-------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | NA | NA |
| | S | 1.0 | mg/Kg |

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:



McC Campbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

| | | |
|---------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted: 09/06/12 |
| | Client P.O.: | Date Analyzed: 09/08/12-09/11/12 |

Arsenic and Lead*

Extraction method: SW3050B

Analytical methods: SW6020

Work Order: 1209114

| Lab ID | Client ID | Matrix | Extraction Type | Arsenic | Lead | DF | % SS | Comments |
|--------|-----------|--------|-----------------|---------|------|----|------|----------|
| 001A | B1-1 | S | TOTAL | 6.3 | 7.6 | 1 | 129 | |
| 002A | B1-3 | S | TOTAL | 9.5 | 8.4 | 1 | 126 | |
| 004A | B2-3 | S | TOTAL | 7.5 | 15 | 1 | 116 | |
| 006A | B3-3 | S | TOTAL | 9.1 | 8.7 | 1 | 130 | |
| 007A | B4-1 | S | TOTAL | 8.6 | 14 | 1 | 121 | |
| 008A | B4-3 | S | TOTAL | 7.9 | 7.5 | 1 | 111 | |
| 009A | B5-1 | S | TOTAL | 6.3 | 17 | 1 | 103 | |
| 012A | B8-1 | S | TOTAL | 8.5 | 48 | 1 | 116 | |
| 013A | B8-3 | S | TOTAL | 6.3 | 6.3 | 1 | 109 | |
| 014A | B9-1 | S | TOTAL | 8.3 | 13 | 1 | 124 | |
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|-------------------------------------------------------------------------------------|---|-------|-----|-----|-------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | TOTAL | NA | NA | NA |
| | S | TOTAL | 0.5 | 0.5 | mg/Kg |

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

**Soil final results are based on 17% water content relative to Soil initial.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Aquifer Sciences, Inc.

3680-A Mt. Diablo Blvd

Lafayette, CA 94549

Client Project ID: #212563

Client Contact: Cheri Whipp

Client P.O.:

Date Sampled: 09/06/12

Date Received: 09/06/12

Date Extracted: 09/06/12

Date Analyzed: 09/07/12-09/13/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550B/3630C

Analytical methods: SW8015B

Work Order: 1209114

| Lab ID | Client ID | Matrix | TPH-Diesel (C10-C23) | TPH-Motor Oil (C18-C36) | DF | % SS | Comments |
|--------------|-----------|--------|-------------------------|----------------------------|----|------|----------|
| 1209114-001A | B1-1 | S | 2.4 | ND | 1 | 90 | e2 |
| 1209114-003A | B2-1 | S | 3.6 | 7.9 | 1 | 102 | e7,e2 |
| 1209114-009A | B5-1 | S | 4.1 | 26 | 1 | 105 | e7,e2 |
| 1209114-010A | B6-1 | S | 5.0 | 28 | 2 | 104 | e7,e2 |
| 1209114-011A | B7-1 | S | 6.2 | 49 | 2 | 81 | e7,e2 |
| 1209114-012A | B8-1 | S | 2.7 | ND | 1 | 93 | e2 |
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|---------------------------------------------------------------------------------------|---|-----|-----|-------|
| Reporting Limit for DF=1; ND means not detected at or above the reporting limit | W | NA | NA | ug/L |
| | S | 1.0 | 5.0 | mg/Kg |

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644



QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70513

WorkOrder: 1209114

EPA Method: SW8081A

Extraction: SW3550B

Spiked Sample ID: 1209114-005A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | mg/kg | mg/kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| Aldrin | ND | 0.050 | 115 | 117 | 1.36 | 108 | 70 - 130 | 30 | 70 - 130 |
| g-BHC | ND | 0.050 | 105 | 106 | 0.368 | 95.6 | 70 - 130 | 30 | 70 - 130 |
| p,p-DDT | ND | 0.050 | 108 | 110 | 2.00 | 70.8 | 70 - 130 | 30 | 70 - 130 |
| Dieldrin | ND | 0.050 | 111 | 115 | 3.61 | 103 | 70 - 130 | 30 | 70 - 130 |
| Endrin | ND | 0.050 | 106 | 108 | 2.20 | 96.1 | 70 - 130 | 30 | 70 - 130 |
| Heptachlor | ND | 0.050 | 118 | 120 | 1.33 | 108 | 70 - 130 | 30 | 70 - 130 |
| %SS: | 102 | 0.050 | 106 | 111 | 5.01 | 93 | 70 - 130 | 30 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70513 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 1209114-001A | 09/06/12 9:39 AM | 09/06/12 | 09/08/12 2:48 AM | 1209114-002A | 09/06/12 9:41 AM | 09/06/12 | 09/08/12 6:54 AM |
| 1209114-003A | 09/06/12 9:55 AM | 09/06/12 | 09/08/12 6:20 AM | 1209114-004A | 09/06/12 10:00 AM | 09/06/12 | 09/08/12 10:27 AM |
| 1209114-005A | 09/06/12 11:00 AM | 09/06/12 | 09/08/12 8:26 AM | 1209114-006A | 09/06/12 11:05 AM | 09/06/12 | 09/08/12 7:29 AM |
| 1209114-007A | 09/06/12 11:19 AM | 09/06/12 | 09/08/12 9:50 AM | 1209114-008A | 09/06/12 11:21 AM | 09/06/12 | 09/08/12 1:52 AM |
| 1209114-009A | 09/06/12 12:45 PM | 09/06/12 | 09/07/12 11:03 PM | 1209114-012A | 09/06/12 11:30 AM | 09/06/12 | 09/08/12 8:38 AM |
| 1209114-013A | 09/06/12 11:37 AM | 09/06/12 | 09/08/12 8:04 AM | 1209114-014A | 09/06/12 12:38 PM | 09/06/12 | 09/08/12 9:13 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

surrogate diluted out of range or surrogate coelutes with another peak

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70482

WorkOrder: 1209114

EPA Method: SW8021B/8015Bm

Extraction: SW5030B

Spiked Sample ID: 1209093-012A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH(btex) £ | ND | 0.60 | 125 | 123 | 1.01 | 122 | 70 - 130 | 20 | 70 - 130 |
| MTBE | ND | 0.10 | 110 | 109 | 1.09 | 112 | 70 - 130 | 20 | 70 - 130 |
| Benzene | ND | 0.10 | 116 | 111 | 4.23 | 112 | 70 - 130 | 20 | 70 - 130 |
| Toluene | ND | 0.10 | 114 | 110 | 3.79 | 111 | 70 - 130 | 20 | 70 - 130 |
| Ethylbenzene | ND | 0.10 | 114 | 111 | 2.34 | 111 | 70 - 130 | 20 | 70 - 130 |
| Xylenes | ND | 0.30 | 116 | 114 | 1.43 | 113 | 70 - 130 | 20 | 70 - 130 |
| %SS: | 108 | 0.10 | 100 | 113 | 12.1 | 94 | 70 - 130 | 20 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70482 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1209114-001A | 09/06/12 9:39 AM | 09/06/12 | 09/08/12 7:12 PM | 1209114-003A | 09/06/12 9:55 AM | 09/06/12 | 09/08/12 8:12 PM |
| 1209114-009A | 09/06/12 12:45 PM | 09/06/12 | 09/07/12 7:42 PM | 1209114-010A | 09/06/12 12:35 PM | 09/06/12 | 09/07/12 8:13 PM |
| 1209114-011A | 09/06/12 12:30 PM | 09/06/12 | 09/07/12 8:43 PM | 1209114-012A | 09/06/12 11:30 AM | 09/06/12 | 09/08/12 8:42 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70485

WorkOrder: 1209114

| EPA Method: SW8260B | | Extraction: SW5030B | | | | | Spiked Sample ID: 1209093-012A | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|--------|--------|--------|--------|--------------------------------|-----|----------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| tert-Amyl methyl ether (TAME) | ND | 0.050 | 75.3 | 77.2 | 2.54 | 84.2 | 56 - 94 | 30 | 50 - 135 |
| Benzene | ND | 0.050 | 87.2 | 87.5 | 0.352 | 94.3 | 60 - 106 | 30 | 70 - 137 |
| t-Butyl alcohol (TBA) | ND | 0.20 | 88.4 | 89 | 0.738 | 96.1 | 56 - 140 | 30 | 50 - 143 |
| Chlorobenzene | ND | 0.050 | 85.9 | 89 | 3.58 | 93 | 61 - 108 | 30 | 69 - 133 |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | 83.3 | 85.8 | 2.95 | 89 | 54 - 119 | 30 | 61 - 135 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.050 | 87.7 | 87.3 | 0.361 | 91.4 | 48 - 115 | 30 | 64 - 133 |
| 1,1-Dichloroethene | ND | 0.050 | 86.4 | 88.8 | 2.70 | 87.1 | 46 - 111 | 30 | 65 - 142 |
| Diisopropyl ether (DIPE) | ND | 0.050 | 85.7 | 85.3 | 0.451 | 91.8 | 53 - 111 | 30 | 65 - 134 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.050 | 82.4 | 82.4 | 0 | 89.1 | 61 - 104 | 30 | 61 - 127 |
| Methyl-t-butyl ether (MTBE) | ND | 0.050 | 82.7 | 83.5 | 0.993 | 88.4 | 58 - 107 | 30 | 65 - 130 |
| Toluene | ND | 0.050 | 94.7 | 95.5 | 0.874 | 99.8 | 64 - 114 | 30 | 70 - 146 |
| Trichloroethene | ND | 0.050 | 94.3 | 94.6 | 0.309 | 99.3 | 60 - 116 | 30 | 66 - 143 |
| %SS1: | 104 | 0.12 | 104 | 102 | 1.47 | 102 | 64 - 117 | 30 | 70 - 130 |
| %SS2: | 109 | 0.12 | 111 | 111 | 0 | 110 | 79 - 133 | 30 | 70 - 130 |
| %SS3: | 109 | 0.012 | 97 | 98 | 0.778 | 104 | 88 - 121 | 30 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70485 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 1209114-001A | 09/06/12 9:39 AM | 09/06/12 | 09/11/12 5:14 PM | 1209114-003A | 09/06/12 9:55 AM | 09/06/12 | 09/11/12 5:54 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70486

WorkOrder: 1209114

| EPA Method: SW6020 | | Extraction: SW3050B | | | | | Spiked Sample ID: 1209093-014A | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|--------|--------|--------|--------|--------------------------------|-----|----------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| Antimony | ND | 50 | 113 | 105 | 7.74 | 92.6 | 75 - 125 | 20 | 75 - 125 |
| Arsenic | 2.2 | 50 | 113 | 102 | 9.88 | 99.2 | 75 - 125 | 20 | 75 - 125 |
| Barium | 50 | 500 | 122 | 111 | 8.71 | 89.6 | 75 - 125 | 20 | 75 - 125 |
| Beryllium | ND | 50 | 114 | 104 | 8.78 | 96.4 | 75 - 125 | 20 | 75 - 125 |
| Cadmium | ND | 50 | 111 | 101 | 9.39 | 95.1 | 75 - 125 | 20 | 75 - 125 |
| Chromium | 21 | 50 | 116 | 103 | 8.33 | 110 | 75 - 125 | 20 | 75 - 125 |
| Cobalt | 5.0 | 50 | 115 | 104 | 9.87 | 95.9 | 75 - 125 | 20 | 75 - 125 |
| Copper | 6.9 | 50 | 113 | 103 | 8.17 | 108 | 75 - 125 | 20 | 75 - 125 |
| Lead | 2.2 | 50 | 111 | 100 | 9.36 | 94.1 | 75 - 125 | 20 | 75 - 125 |
| Mercury | 0.068 | 1.25 | 117 | 107 | 8.71 | 99.4 | 75 - 125 | 20 | 75 - 125 |
| Molybdenum | ND | 50 | 105 | 96.4 | 8.58 | 98 | 75 - 125 | 20 | 75 - 125 |
| Nickel | 21 | 50 | 117 | 105 | 8.18 | 108 | 75 - 125 | 20 | 75 - 125 |
| Selenium | ND | 50 | 110 | 104 | 5.09 | 99.8 | 75 - 125 | 20 | 75 - 125 |
| Silver | ND | 50 | 104 | 97.6 | 6.58 | 95.5 | 75 - 125 | 20 | 75 - 125 |
| Thallium | ND | 50 | 107 | 101 | 6.04 | 93.3 | 75 - 125 | 20 | 75 - 125 |
| Vanadium | 33 | 50 | 119 | 104 | 8.27 | 108 | 75 - 125 | 20 | 75 - 125 |
| Zinc | 19 | 500 | 114 | 104 | 8.67 | 104 | 75 - 125 | 20 | 75 - 125 |
| %SS: | 114 | 500 | 125 | 114 | 9.41 | 92 | 70 - 130 | 20 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70486 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1209114-001A | 09/06/12 9:39 AM | 09/06/12 | 09/08/12 8:16 AM | 1209114-002A | 09/06/12 9:41 AM | 09/06/12 | 09/08/12 8:24 AM |
| 1209114-003A | 09/06/12 9:55 AM | 09/06/12 | 09/08/12 8:32 AM | 1209114-004A | 09/06/12 10:00 AM | 09/06/12 | 09/08/12 8:40 AM |
| 1209114-005A | 09/06/12 11:00 AM | 09/06/12 | 09/08/12 9:11 AM | 1209114-006A | 09/06/12 11:05 AM | 09/06/12 | 09/08/12 9:19 AM |
| 1209114-007A | 09/06/12 11:19 AM | 09/06/12 | 09/11/12 4:16 AM | 1209114-008A | 09/06/12 11:21 AM | 09/06/12 | 09/11/12 4:24 AM |

MMS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$.

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer



QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70515

WorkOrder: 1209114

EPA Method: SW6020

Extraction: SW3050B

Spiked Sample ID: 1209114-014A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|---------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| Arsenic | 8.3 | 50 | 88.6 | 86.7 | 1.90 | 102 | 75 - 125 | 20 | 75 - 125 |
| Lead | 13 | 50 | 87.2 | 87.5 | 0.230 | 102 | 75 - 125 | 20 | 75 - 125 |
| %SS: | 124 | 500 | 109 | 107 | 1.59 | 110 | 70 - 130 | 20 | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 70515 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1209114-009A | 09/06/12 12:45 PM | 09/06/12 | 09/11/12 4:31 AM | 1209114-012A | 09/06/12 11:30 AM | 09/06/12 | 09/11/12 4:39 AM |
| 1209114-013A | 09/06/12 11:37 AM | 09/06/12 | 09/11/12 4:47 AM | 1209114-014A | 09/06/12 12:38 PM | 09/06/12 | 09/08/12 1:43 PM |

MMS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70412

WorkOrder: 1209114

EPA Method: SW8015B

Extraction: SW3550B/3630C

Spiked Sample ID: 1208797-001A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|----------------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH-Diesel (C10-C23) | 17 | 40 | NR | NR | NR | 129 | N/A | N/A | 70 - 130 |
| %SS: | 100 | 25 | NR | NR | NR | 117 | N/A | N/A | 70 - 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 70412 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|------------------|
| 1209114-001A | 09/06/12 9:39 AM | 09/06/12 | 09/11/12 8:48 AM | 1209114-003A | 09/06/12 9:55 AM | 09/06/12 | 09/12/12 1:31 AM |
| 1209114-009A | 09/06/12 12:45 PM | 09/06/12 | 09/13/12 1:15 PM | 1209114-010A | 09/06/12 12:35 PM | 09/06/12 | 09/13/12 3:47 PM |
| 1209114-011A | 09/06/12 12:30 PM | 09/06/12 | 09/12/12 12:22 AM | 1209114-012A | 09/06/12 11:30 AM | 09/06/12 | 09/07/12 3:11 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



McC Campbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Analytical Report

| | | |
|---------------------------------------------------------------------------------|-----------------------------|--------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Reported: 09/12/12 |
| | Client P.O.: | Date Completed: 09/11/12 |

WorkOrder: 1209113

September 19, 2012

Dear Cheri:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#212563**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

AQUIFER SCIENCES, INC.

3680-A Mt. Diablo Blvd.
Lafayette, CA 94549

(925) 283-9098
(925) 283-9133 FAX

CHAIN OF CUSTODY

GLOBAL ID#

Project Number: 212563

Number of Containers
and Preservative

Sampler(s)
Signature(s): *Justa H*

Sample
Identification

Date

Time

Sample
Type

Unpreserved
HCl
HNO₃
H₂SO₄
NaOH

Motor Oil
Gasoline
EPA
EPA 624/8260
EPA 625/8270
EPA
Metals
CAM 17
LUFT 5
Priority Poll

silica gel cleanup
MTBE
Aromatic VOCs
Fuel Oxygenates
SVOCs
PAHs
Pesticides
PCBs
CAM 17
LUFT 5
Priority Poll

Results: ☒ Email
☐ FAX ☐ EDF
GeoTracker

Turn-around time:

☐ 10-day ☒ 5-day ☐

Contact: Becky or Cheri

Email: *ras* @aquifer.com

chipp@aquifer.com *jerans@aquifer.com*

Comments

+1 B2

+2 B8

9/6/12

1306

H₂O

1 7

7

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

Quote # 2606

meet ESLs for 8081

Filter & preserve then analyze

ICE # 3.8
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION

APPROPRIATE
CONTAINERS
PRESERVED IN LAB
VOAS O&G METALS OTHER

Relinquished by

Date

Time

Received by

Date

Time

Mike Miller

9/6/12

1528

Mum V

9/6/12

1528

Analytical laboratory:

McCampbell Analytical

Shipping notes:

na MM

Page

1 of 1

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1209113

ClientCode: ASI

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Cheri Whipp
Aquifer Sciences, Inc.
3680-A Mt. Diablo Blvd
Lafayette, CA 94549
925-283-9098 FAX: 925-283-9133

Email: ras@aquifer.com; cwhipp@aquifer.com
cc: jevans@aquifer.com
PO:
ProjectNo: #212563

Bill to:

Accounts Payable
Aquifer Sciences, Inc.
3680-A Mt. Diablo Blvd
Lafayette, CA 94549

Requested TAT:

5 days

Date Received: 09/06/2012

Date Printed: 09/06/2012

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1209113-001 | B2 | Water | 9/6/2012 13:00 | <input type="checkbox"/> | B | C | A | C | | | | | | | | |
| 1209113-002 | B8 | Water | 9/6/2012 11:45 | <input type="checkbox"/> | B | | A | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|---------|----|--------------|---|----------|---|-------------|----|--|
| 1 | 8260B_W | 2 | CAM17MS DISS | 3 | G-MBTX_W | 4 | PRDISSOLVED | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Aquifer Sciences, Inc.**

Date and Time Received: **9/6/2012 5:47:57 PM**

Project Name: **#212563**

Login Reviewed by: **Maria Venegas**

WorkOrder N°: **1209113**

Matrix: Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

| | | |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

| | | | |
|----------------------------------------------------|-----------------------------------------|-----------------------------|----------------------------------------|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

| | | | |
|-----------------------------------------------------|-----------------------------------------|-----------------------------|------------------------------------------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: 3.8°C | | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Metal - pH acceptable upon receipt (pH<2)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Comments:



Aquifer Sciences, Inc.

3680-A Mt. Diablo Blvd

Lafayette, CA 94549

Client Project ID: #212563

Client Contact: Cheri Whipp

Client P.O.:

Date Sampled: 09/06/12

Date Received: 09/06/12

Date Extracted: 09/12/12

Date Analyzed: 09/12/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1209113

| Lab ID | 1209113-001B | | | | | | |
|-------------------------------|-----------------|-----|-----------------|-------------------------------|-----------------|-----|-----------------|
| Client ID | B2 | | | | | | |
| Matrix | Water | | | | | | |
| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
| Acetone | ND | 1.0 | 10 | tert-Amyl methyl ether (TAME) | ND | 1.0 | 0.5 |
| Benzene | ND | 1.0 | 0.5 | Bromobenzene | ND | 1.0 | 0.5 |
| Bromochloromethane | ND | 1.0 | 0.5 | Bromodichloromethane | ND | 1.0 | 0.5 |
| Bromoform | ND | 1.0 | 0.5 | Bromomethane | ND | 1.0 | 0.5 |
| 2-Butanone (MEK) | ND | 1.0 | 2.0 | t-Butyl alcohol (TBA) | ND | 1.0 | 2.0 |
| n-Butyl benzene | ND | 1.0 | 0.5 | sec-Butyl benzene | ND | 1.0 | 0.5 |
| tert-Butyl benzene | ND | 1.0 | 0.5 | Carbon Disulfide | ND | 1.0 | 0.5 |
| Carbon Tetrachloride | ND | 1.0 | 0.5 | Chlorobenzene | ND | 1.0 | 0.5 |
| Chloroethane | ND | 1.0 | 0.5 | Chloroform | ND | 1.0 | 0.5 |
| Chloromethane | ND | 1.0 | 0.5 | 2-Chlorotoluene | ND | 1.0 | 0.5 |
| 4-Chlorotoluene | ND | 1.0 | 0.5 | Dibromochloromethane | ND | 1.0 | 0.5 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.2 | 1,2-Dibromoethane (EDB) | ND | 1.0 | 0.5 |
| Dibromomethane | ND | 1.0 | 0.5 | 1,2-Dichlorobenzene | ND | 1.0 | 0.5 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.5 | 1,4-Dichlorobenzene | ND | 1.0 | 0.5 |
| Dichlorodifluoromethane | ND | 1.0 | 0.5 | 1,1-Dichloroethane | ND | 1.0 | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 1.0 | 0.5 | 1,1-Dichloroethene | ND | 1.0 | 0.5 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.5 |
| 1,2-Dichloropropane | ND | 1.0 | 0.5 | 1,3-Dichloropropane | ND | 1.0 | 0.5 |
| 2,2-Dichloropropane | ND | 1.0 | 0.5 | 1,1-Dichloropropene | ND | 1.0 | 0.5 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.5 | trans-1,3-Dichloropropene | ND | 1.0 | 0.5 |
| Diisopropyl ether (DIPE) | ND | 1.0 | 0.5 | Ethylbenzene | ND | 1.0 | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | 0.5 | Freon 113 | ND | 1.0 | 10 |
| Hexachlorobutadiene | ND | 1.0 | 0.5 | Hexachloroethane | ND | 1.0 | 0.5 |
| 2-Hexanone | ND | 1.0 | 0.5 | Isopropylbenzene | ND | 1.0 | 0.5 |
| 4-Isopropyl toluene | ND | 1.0 | 0.5 | Methyl-t-butyl ether (MTBE) | ND | 1.0 | 0.5 |
| Methylene chloride | ND | 1.0 | 0.5 | 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | 0.5 |
| Naphthalene | ND | 1.0 | 0.5 | n-Propyl benzene | ND | 1.0 | 0.5 |
| Styrene | ND | 1.0 | 0.5 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.5 | Tetrachloroethene | ND | 1.0 | 0.5 |
| Toluene | ND | 1.0 | 0.5 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.5 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.5 | 1,1,1-Trichloroethane | ND | 1.0 | 0.5 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.5 | Trichloroethene | ND | 1.0 | 0.5 |
| Trichlorofluoromethane | ND | 1.0 | 0.5 | 1,2,3-Trichloropropane | ND | 1.0 | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.5 | 1,3,5-Trimethylbenzene | ND | 1.0 | 0.5 |
| Vinyl Chloride | ND | 1.0 | 0.5 | Xylenes, Total | ND | 1.0 | 0.5 |

Surrogate Recoveries (%)

| | | | |
|-------|-----|-------|-----|
| %SS1: | 111 | %SS2: | 100 |
| %SS3: | 108 | | |

Comments: b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Aquifer Sciences, Inc.

3680-A Mt. Diablo Blvd

Lafayette, CA 94549

Client Project ID: #212563

Client Contact: Cheri Whipp

Client P.O.:

Date Sampled: 09/06/12

Date Received: 09/06/12

Date Extracted: 09/10/12

Date Analyzed: 09/10/12

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1209113

| Lab ID | 1209113-002B | | | | | | |
|-------------------------------|-----------------|-----|-----------------|-------------------------------|-----------------|-----|-----------------|
| Client ID | B8 | | | | | | |
| Matrix | Water | | | | | | |
| Compound | Concentration * | DF | Reporting Limit | Compound | Concentration * | DF | Reporting Limit |
| Acetone | ND | 1.0 | 10 | tert-Amyl methyl ether (TAME) | ND | 1.0 | 0.5 |
| Benzene | ND | 1.0 | 0.5 | Bromobenzene | ND | 1.0 | 0.5 |
| Bromochloromethane | ND | 1.0 | 0.5 | Bromodichloromethane | ND | 1.0 | 0.5 |
| Bromoform | ND | 1.0 | 0.5 | Bromomethane | ND | 1.0 | 0.5 |
| 2-Butanone (MEK) | ND | 1.0 | 2.0 | t-Butyl alcohol (TBA) | ND | 1.0 | 2.0 |
| n-Butyl benzene | ND | 1.0 | 0.5 | sec-Butyl benzene | ND | 1.0 | 0.5 |
| tert-Butyl benzene | ND | 1.0 | 0.5 | Carbon Disulfide | ND | 1.0 | 0.5 |
| Carbon Tetrachloride | ND | 1.0 | 0.5 | Chlorobenzene | ND | 1.0 | 0.5 |
| Chloroethane | ND | 1.0 | 0.5 | Chloroform | ND | 1.0 | 0.5 |
| Chloromethane | ND | 1.0 | 0.5 | 2-Chlorotoluene | ND | 1.0 | 0.5 |
| 4-Chlorotoluene | ND | 1.0 | 0.5 | Dibromochloromethane | ND | 1.0 | 0.5 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.2 | 1,2-Dibromoethane (EDB) | ND | 1.0 | 0.5 |
| Dibromomethane | ND | 1.0 | 0.5 | 1,2-Dichlorobenzene | ND | 1.0 | 0.5 |
| 1,3-Dichlorobenzene | ND | 1.0 | 0.5 | 1,4-Dichlorobenzene | ND | 1.0 | 0.5 |
| Dichlorodifluoromethane | ND | 1.0 | 0.5 | 1,1-Dichloroethane | ND | 1.0 | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 1.0 | 0.5 | 1,1-Dichloroethene | ND | 1.0 | 0.5 |
| cis-1,2-Dichloroethene | ND | 1.0 | 0.5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.5 |
| 1,2-Dichloropropane | ND | 1.0 | 0.5 | 1,3-Dichloropropane | ND | 1.0 | 0.5 |
| 2,2-Dichloropropane | ND | 1.0 | 0.5 | 1,1-Dichloropropene | ND | 1.0 | 0.5 |
| cis-1,3-Dichloropropene | ND | 1.0 | 0.5 | trans-1,3-Dichloropropene | ND | 1.0 | 0.5 |
| Diisopropyl ether (DIPE) | ND | 1.0 | 0.5 | Ethylbenzene | ND | 1.0 | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | 0.5 | Freon 113 | ND | 1.0 | 10 |
| Hexachlorobutadiene | ND | 1.0 | 0.5 | Hexachloroethane | ND | 1.0 | 0.5 |
| 2-Hexanone | ND | 1.0 | 0.5 | Isopropylbenzene | ND | 1.0 | 0.5 |
| 4-Isopropyl toluene | ND | 1.0 | 0.5 | Methyl-t-butyl ether (MTBE) | ND | 1.0 | 0.5 |
| Methylene chloride | ND | 1.0 | 0.5 | 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | 0.5 |
| Naphthalene | ND | 1.0 | 0.5 | n-Propyl benzene | ND | 1.0 | 0.5 |
| Styrene | ND | 1.0 | 0.5 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.5 | Tetrachloroethene | ND | 1.0 | 0.5 |
| Toluene | ND | 1.0 | 0.5 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.5 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | 0.5 | 1,1,1-Trichloroethane | ND | 1.0 | 0.5 |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.5 | Trichloroethene | ND | 1.0 | 0.5 |
| Trichlorofluoromethane | ND | 1.0 | 0.5 | 1,2,3-Trichloropropane | ND | 1.0 | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 0.5 | 1,3,5-Trimethylbenzene | ND | 1.0 | 0.5 |
| Vinyl Chloride | ND | 1.0 | 0.5 | Xylenes, Total | ND | 1.0 | 0.5 |

Surrogate Recoveries (%)

| | | | |
|-------|-----|-------|-----|
| %SS1: | 110 | %SS2: | 101 |
| %SS3: | 101 | | |

Comments: b1

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

| | | |
|---------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted: 09/06/12 |
| | Client P.O.: | Date Analyzed: 09/08/12-09/11/12 |

CAM / CCR 17 Metals*

| | | | | | | |
|-----------------|--------------|--|--|--|----------------------------------------------------------------------------------|------|
| Lab ID | 1209113-001C | | | | Reporting Limit for DF =1; ND means not detected above the reporting limit | |
| Client ID | B2 | | | | | |
| Matrix | W | | | | MDL | RL |
| Extraction Type | DISS. | | | | µg/L | µg/L |

ICP-MS Metals, Concentration*

Analytical Method: E200.8

Extraction Method: E200.8

Work Order: 1209113

| Dilution Factor | 10 | | | | 1 | 1 |
|-----------------|---------|--|--|--|------|-------|
| Antimony | ND<2.6 | | | | 0.26 | 0.5 |
| Arsenic | ND<1.8 | | | | 0.18 | 0.5 |
| Barium | 36,J | | | | 0.45 | 5.0 |
| Beryllium | ND<0.70 | | | | 0.07 | 0.5 |
| Cadmium | ND<0.40 | | | | 0.04 | 0.25 |
| Chromium | 3.3,J | | | | 0.16 | 0.5 |
| Cobalt | 2.5,J | | | | 0.03 | 0.5 |
| Copper | 4.0,J | | | | 0.07 | 0.5 |
| Lead | ND<1.0 | | | | 0.1 | 0.5 |
| Mercury | 0.21,J | | | | 0.01 | 0.025 |
| Molybdenum | 8.0 | | | | 0.05 | 0.5 |
| Nickel | 8.7 | | | | 0.08 | 0.5 |
| Selenium | 22 | | | | 0.12 | 0.5 |
| Silver | ND<1.2 | | | | 0.12 | 0.19 |
| Thallium | ND<0.40 | | | | 0.04 | 0.5 |
| Vanadium | 1.5,J | | | | 0.07 | 0.5 |
| Zinc | 41,J | | | | 0.71 | 5.0 |
| %SS: | N/A | | | | | |

Comments a12,b1

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

J) analyte detected below quantitation limits

a12) reporting limit raised due to high non-reported metals content.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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<http://www.mccampbell.com> / E-mail: main@mccampbell.com

| | | |
|---------------------------------------------------------------------------------|-----------------------------|-------------------------|
| Aquifer Sciences, Inc. 3680-A Mt. Diablo Blvd Lafayette, CA 94549 | Client Project ID: #212563 | Date Sampled: 09/06/12 |
| | | Date Received: 09/06/12 |
| | Client Contact: Cheri Whipp | Date Extracted 09/07/12 |
| | Client P.O.: | Date Analyzed 09/07/12 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline *

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1209113

[illegible]

| | | | |
|----------------------------------------------------------------------------------------|---|----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 50 | µg/L |
| | S | NA | NA |

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
b1) aqueous sample that contains greater than ~1 vol. % sediment



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 70624

WorkOrder: 1209113

| EPA Method: SW8260B | | Extraction: SW5030B | | | | | Spiked Sample ID: 1209088-001A | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|--------|--------|--------|--------|--------------------------------|-----|----------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| tert-Amyl methyl ether (TAME) | ND | 10 | 110 | 108 | 1.71 | 94 | 70 - 130 | 20 | 70 - 130 |
| Benzene | ND | 10 | 97.4 | 96.1 | 1.25 | 96.3 | 70 - 130 | 20 | 76 - 106 |
| t-Butyl alcohol (TBA) | ND | 40 | 118 | 115 | 1.98 | 86.7 | 70 - 130 | 20 | 70 - 130 |
| Chlorobenzene | ND | 10 | 98.7 | 96.1 | 2.69 | 98 | 70 - 130 | 20 | 79 - 105 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 114 | 110 | 3.22 | 98.2 | 70 - 130 | 20 | 76 - 116 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 100 | 99 | 1.34 | 94.6 | 70 - 130 | 20 | 69 - 111 |
| 1,1-Dichloroethene | ND | 10 | 95.5 | 95.8 | 0.248 | 97.5 | 70 - 130 | 20 | 70 - 104 |
| Diisopropyl ether (DIPE) | ND | 10 | 102 | 99.9 | 1.80 | 95.8 | 70 - 130 | 20 | 79 - 111 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 108 | 106 | 1.38 | 98 | 70 - 130 | 20 | 70 - 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 109 | 107 | 1.86 | 93.8 | 70 - 130 | 20 | 70 - 130 |
| Toluene | ND | 10 | 95.5 | 93.7 | 1.92 | 96.3 | 70 - 130 | 20 | 70 - 130 |
| Trichloroethene | 1.2 | 10 | 99.9 | 98 | 1.84 | 100 | 70 - 130 | 20 | 70 - 130 |
| %SS1: | 109 | 25 | 111 | 111 | 0 | 106 | 70 - 130 | 20 | 70 - 130 |
| %SS2: | 100 | 25 | 99 | 99 | 0 | 101 | 70 - 130 | 20 | 70 - 130 |
| %SS3: | 106 | 2.5 | 99 | 100 | 1.59 | 102 | 70 - 130 | 20 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70624 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|-------------------|
| 1209113-001B | 09/06/12 1:00 PM | 09/12/12 | 09/12/12 4:03 AM | 1209113-002B | 09/06/12 11:45 AM | 09/10/12 | 09/10/12 11:13 PM |

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation. |
| % Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$. |
| MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery. |
| N/A = not enough sample to perform matrix spike and matrix spike duplicate. |
| NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content. |
| # surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference. |
| Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels. |



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 70475

WorkOrder: 1209113

EPA Method: E200.8

Extraction: E200.8

Spiked Sample ID: 1208640-014A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| Antimony | ND | 50 | 105 | 104 | 1.36 | 106 | 70 - 130 | 20 | 85 - 115 |
| Arsenic | 2.2 | 50 | 104 | 105 | 0.386 | 104 | 70 - 130 | 20 | 85 - 115 |
| Barium | 36 | 500 | 99.3 | 99 | 0.320 | 100 | 70 - 130 | 20 | 85 - 115 |
| Beryllium | ND | 50 | 105 | 104 | 0.630 | 111 | 70 - 130 | 20 | 85 - 115 |
| Cadmium | ND | 50 | 101 | 101 | 0 | 106 | 70 - 130 | 20 | 85 - 115 |
| Chromium | ND | 50 | 99.4 | 100 | 0.761 | 103 | 70 - 130 | 20 | 85 - 115 |
| Cobalt | ND | 50 | 101 | 102 | 0.433 | 107 | 70 - 130 | 20 | 85 - 115 |
| Copper | 20 | 50 | 97.3 | 99.7 | 1.71 | 106 | 70 - 130 | 20 | 85 - 115 |
| Lead | ND | 50 | 102 | 102 | 0 | 106 | 70 - 130 | 20 | 85 - 115 |
| Mercury | ND | 1.25 | 114 | 114 | 0 | 108 | 70 - 130 | 20 | 85 - 115 |
| Molybdenum | 3.0 | 50 | 103 | 102 | 0.974 | 104 | 70 - 130 | 20 | 85 - 115 |
| Nickel | 0.64 | 50 | 97.4 | 98.9 | 1.49 | 105 | 70 - 130 | 20 | 85 - 115 |
| Selenium | 0.82 | 50 | 102 | 103 | 0.904 | 105 | 70 - 130 | 20 | 85 - 115 |
| Silver | ND | 50 | 99.4 | 97.9 | 1.52 | 105 | 70 - 130 | 20 | 85 - 115 |
| Thallium | ND | 50 | 102 | 102 | 0 | 105 | 70 - 130 | 20 | 85 - 115 |
| Vanadium | 4.1 | 50 | 103 | 104 | 0.681 | 104 | 70 - 130 | 20 | 85 - 115 |
| Zinc | 5.9 | 500 | 98.7 | 99.8 | 1.08 | 107 | 70 - 130 | 20 | 85 - 115 |
| %SS: | 112 | 750 | 114 | 113 | 0.129 | 110 | 70 - 130 | 20 | 85 - 115 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 70475 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 1209113-001C | 09/06/12 1:00 PM | 09/06/12 | 09/08/12 3:57 PM | 1209113-001C | 09/06/12 1:00 PM | 09/06/12 | 09/11/12 6:18 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 70579

WorkOrder: 1209113

EPA Method: SW8021B/8015Bm

Extraction: SW5030B

Spiked Sample ID: 1209113-002A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH(btex) £ | ND | 60 | 102 | 99.3 | 2.97 | 104 | 70 - 130 | 20 | 70 - 130 |
| MTBE | ND | 10 | 103 | 93.4 | 9.93 | 90.4 | 70 - 130 | 20 | 70 - 130 |
| Benzene | ND | 10 | 99.8 | 101 | 0.783 | 103 | 70 - 130 | 20 | 70 - 130 |
| Toluene | ND | 10 | 100 | 101 | 0.934 | 105 | 70 - 130 | 20 | 70 - 130 |
| Ethylbenzene | ND | 10 | 103 | 104 | 0.726 | 106 | 70 - 130 | 20 | 70 - 130 |
| Xylenes | ND | 30 | 105 | 107 | 1.76 | 108 | 70 - 130 | 20 | 70 - 130 |
| %SS: | 86 | 10 | 92 | 95 | 3.19 | 92 | 70 - 130 | 20 | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70579 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1209113-001A | 09/06/12 1:00 PM | 09/07/12 | 09/07/12 2:23 PM | 1209113-002A | 09/06/12 11:45 AM | 09/07/12 | 09/07/12 2:54 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 70512

WorkOrder: 1209113

EPA Method: SW8015B

Extraction: SW3510C/3630C

Spiked Sample ID: N/A

| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|-------------------------|-----|----------|
| | µg/L | µg/L | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS |
| TPH-Diesel (C10-C23) | N/A | 1000 | N/A | N/A | N/A | 112 | N/A | N/A | 70 - 130 |
| %SS: | N/A | 625 | N/A | N/A | N/A | 98 | N/A | N/A | 70 - 130 |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | |

BATCH 70512 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1209113-001A | 09/06/12 1:00 PM | 09/06/12 | 09/07/12 3:11 AM | 1209113-002A | 09/06/12 11:45 AM | 09/06/12 | 09/07/12 4:17 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount\ Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.